Task Order 00006 - Qabatiya Well, Pump Station and Conveyance System

Monthly Progress Report # 33

For the Month of February 2016

This publication was produced for the United States Agency for International Development, West Bank and Gaza Mission. It was prepared by CDM Smith under Contract No.: IQC No. AID-294-I-00-12-00001,
Relative to Order No.AID-294-TO-13-00006.

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List of Acronyms and Abbreviations

ANSI	American National Standards Institute
ASQ	American Society for Quality
AWWA	American Water Works Association
CMC	Construction Management Contractor
CQC	Contractor Quality Control
CSMP	Construction Safety and Health Management Plan
EPA	Environmental Protection Agency
EQA	Environmental Quality Authority
HSWA	Federal Hazardous and Solid Waste Amendments
HSE	Health Safety & Environmental
IADC	International Association of Drilling Contractors
ISEA	Industrial Safety Equipment Association
IQC	Indefinite Quantity Contract
ISO	International Organization for Standardization
MIC	Man in Charge
NCR	Non Conformance Report
NUC	Notice of Unsafe Conditions
OSHA	Occupational Safety and Health Administration
PA	Palestinian Authority
PWA	Palestinian Water Authority
PPE	Personal Protective Equipment
QCP	Quality Control Plan
QMS	Quality Management System
RCS	Radio Communication System
RFI	Request for Information
SCADA	Supervisory Control and Data Acquisition
TDY	Temporarily Deployed for a Year
USAID	United States Agency for International Development
WP	Work Plan
WBWD	West Bank Water Department
WEF	Water Environment Federation

1. DASHBOARD - INTRODUCTION AND SUMMARY

Monthly Report No.33 covers activities accomplished during the month of February 2016 and previews activities anticipated during the next month, March 2016.

1.1 Purpose and Background

The USAID West Bank and Gaza Infrastructure Needs Program II (INP II) is designed to support U.S. Government efforts with the peace process by improving Palestinian access to basic infrastructure and services throughout the West Bank, and if conditions and funding permit, in Gaza.

Infrastructure in the West Bank and Gaza suffers from years of neglect and lack of investment. The USAID Mission INP II focuses on the rehabilitation and construction of roads, schools, water, and wastewater projects. The USAID objective is to help the Palestinian economy by improving Palestinian access to basic infrastructure and services.

1.2 Objectives of Task Order 00006

The objective of this Task Order is to develop, rehabilitate and improve an existing well at Qabatiya and to install and equip that well with a new pump and appurtenant equipment. The Task Order also includes construction of a conveyance system that will connect the Qabatiya Well to Al-Zababdeh junction.

1.3 Work/Activity Status

The percent complete, Start and Finish information for each major component is shown on the following table.

Activity Name	Percent Complete	Planned Start Actual Start	Planned Finish Actual Finish
Preconstruction Coordination with PWA	100%	14 May 2013 14 May 2013	18 June 2013 18 June 2013
Mobilization	100%	14 May 2013 14 May 2013	25 June 2013 25 June 2013
Submittals	98%	14 May 2013 14 May 2013	15 January 2016 TBD
Procurement and Delivery	100%	26 August 2013 26 August 2013	31 January 201631 January 2016
Construction Phase	96.73%	19 June 2013 19 June 2013	20 February 2016 20 February 2016
Post Construction Phase	0%	21 February 2016 21 February 2016	5 March 2016 TBD

1.4 Key Information

Contract Number:	AID-294-I-00-12-00001
Task Order Number:	AID-294-TO-13-00006
Notice to Proceed:	14 May 2013
Project Original Duration:	550 Days
Project Original Completion Date:	14 November 2014
BOQ Item Original Amount:	$6,858,760.00
Day Work Original Amount:	$850,000.00
Original Contract Value:	$ 7,708,760.00
Project Modified Duration:	1027 Days
Project Modified Completion Date:	5 March 2016
BOQ Item Modified Amount:	$ 10,646,204.92
Day Work Modified Amount:	$63,790.08

2. PROJECT ADMINISTRATION

This Task Order is one of several task orders through which the USAID West Bank and Gaza Infrastructure Needs Program II (INP II) that is designed to improve Palestinian access to basic infrastructure and services throughout the West Bank. Some activities detailed in this report share a common base with the overall project or other Task Orders.

2.1. Submission of Most Recent Monthly Report

This document is the thirty-three in a series of Monthly Reports to be prepared by CDM Smith providing a summary of key project activities during consecutive monthly reporting periods.

2.2. Submission of Most Recent Invoices

CDM Smith submitted invoice No. 11 and is currently preparing invoice # 12. The following table is a summary of the current invoice status.

New BOQ Amount	$ 10,646,204.92
New Day Works	$63,790.08
Amount Obligated	$10,709,995.00
Variation Orders/ Modification Amount	$3,787,444.92
Task Order Amount (BOQ +DW)	$10,709,995.00
Most Recent Invoice	$ 4,454,629.57
Invoiced to Date	$ 6,399,805.89

2.3. Staff Information

At the end of this reporting period, 29TH February 2016, 16 team members are working on the overall project and other Task Orders in the West Bank. Following are some key Task Order and support staff for the project:

Anthony Mirabella	VP and IQC Manager
Amy O'Connell	Civil Engineer/Contract Specialist
Kevin P. Connors	Senior Project Manager
Ghassan Thaher	Task Order Manager - Key Personnel
Abdel Rahman Bakeer	Safety and Environmental – Key Personnel
Talal Mahasin	QA/QC Manager – Key Personnel
Abed Ahmad	Office Assistant/CMC Office Al-Zababdeh
Yazan Meqbel	Project Engineer
Tamadour Abu AL Rub	Document Control Officer
Mousa Anbar	Finance and Administration Manager
Renad Nafee	Finance Assistant Manager
Hiba Othman	Admin Assistant
Anas Abu Sneineh	Security and Logistic Manager
Murad Abu Nasrah	Office Assistant
Ali Odeh	Project Engineer (Scheduler and Controller)
Ghaleb Daraghmeh	Mechanical Engineer

The following specialty staff from CDM Smith is still supporting the project activities from CDM Smith home offices in USA and spent a significant time during the reporting period in the West Bank:

- Mr. Tony Mirabella who serves as IQC Manager for the overall project and is a Senior Vice President of CDM Smith. Mr. Mirabella communicates with the West Bank team on daily basis. Mr. Mirabella is following all work activities that take place at this project in communicating via emails and daily phone calls.
- Ms. Amy O'Connell Civil and Environmental Engineer of CDM Smith continued coordinating with West Bank Staff.
- Mr. Kevin P. Connors who serves as a Senior Project Manager is communicating with West Bank Team to be updated for ongoing progress of Qabatiya Project. Moreover, Mr. Connors is directly involved in finalizing and evaluating all variation orders and modification # 1 received for the project. An agreement was signed between CDM Smith and a local electro-mechanical office to support the team in electrical activities.

3. ACCOMPLISHMENTS

Following is a summary of significant meetings, correspondence and submittals within this reporting period.

3.1. Accomplishments

Following are key accomplishments for the reporting period.

3.1.1. General, Overall and Project Wide

During this reporting period the following construction activities were performed and /or progressing:

- FC Dekguard painting for the external walls of both balance tank and well buildings is completed. Moreover, the internal painting for the well buildings is completed.
- Finishing works for the living quarter, chlorination, metering and electrical & control buildings are completed.
- The numbering of electrical wires and cables is completed.
- Pre-commissioning and commissioning stages for Qabatiya well system are successfully completed including the well pump and all associated equipment, booster pump (including surge tank and all related control system), chlorination system and others.
- Training material and sessions (field and classroom) were conducted for PCIS (Process Control and Instrumentation System).
- Asphalt works for conveyance system, well yard and entrance were completed.
- Continue working on close-out submittals (record drawings).
- Installation of Chlorination system inside the chlorination room is completed.

3.1.2. Submittals for Task Order 00006

Construction submittals continued during this reporting period. Some of the main construction submittals during this reporting period are listed hereunder and included in the attached updated submittal log.

A summary of significant submittals follows, however a table covering all submittals for the reporting period is included in the Appendix:

- Completion of the pre-construction submittals.
- Continue of the following construction submittals:

  - Test certificate of portable air compressor;
  - Degree of compaction test (field density -sampling date Feb 1st, 2016) Ref. No: M/1602/3 ;
  - Degree of compaction test (field density) for the base coarse layer blow concrete sidewalks-report Ref.No:M/1602/22;
  - Updated risk management plan for January 2016;
  - Monthly updates for environmental monitoring and mitigation plan for January 2016;
  - Updated CPM Schedule until 31 January 2016;
  - Factory Test Report for the Surge Tank;
  - Monthly QA/QC and Safety Plans Updates for January 2016;
  - Degree of compaction test (field density) for the base coarse layer below interlocking sidewalks Tiles -report Ref. No: M/1602/100;
  - Test Report on Concrete Compressive Strength for Fence wall footing transformer pads(1&2)& well metering pad--7 &28 Day Result) Ref: BM/38203;
  - Test Report on Concrete Compressive Strength for top parts of transformer pads(1&2)--7 &28 Day Result) Ref: BM/38227;
  - Test Report on Concrete Compressive Strength for SOG of booster station & western part of fence wall-7 &28 Day Result) Ref: BM/38322;
  - Test Report on Concrete Compressive Strength for BT inlet metering pad-7 &28 Day Result) Ref: BM/38357;
  - Test Report on Concrete Compressive Strength for wellhead pad-7 &28 Day Result) Ref: BM/38356;
  - Updated Submittal Registry (up to Jan 31 2016);
  - Test report of flexural strength & dimension of concrete curbstone Ref: M/1602/50;

- Final Operation & Maintenance Manual for Section 32: Step-up Transformer (Draft);
- Motor insulation test;
- Cable insulation test;
- Chemical and microbiological analytical report for 1000 m3 Qabatiya water balance tank;
- Final Operation & Maintenance Manual for Section 17: Booster Pumps & Electric Motors;
- Final Operation & Maintenance Manual for Section 30: Medium Voltage Switchgear;
- Certification of proper installation for the surge bladder tank;
- Coordination Study for Equipment and Instruments of Qabatiya Well Pump Station;
- Final operation & maintenance manual for section 18:Submersible well pump;
- Test Report on Concrete Compressive Strength for slab on grade around balancing tank & electrical metering building--7 Day Result) Ref: M/1602/124;
- Final operation & maintenance manual for section 28: Variable frequency drive of well pump;
- Final operation & maintenance manual for section 29: Variable frequency drive of Booster pump;
- Final operation & maintenance manual for section 33: Step-down transformer;
- Revised CPM Schedule up to 2 Feb 2016;
- Preliminary Operation & Maintenance Manuals (Sections 6, 8, 10 & 45);
- Results of field testing & inspections for instruments of Qabatiya pump station;
- Test Report on cement block for paving (interlock block), Ref.: M/1602/134 & M/1602/134a;
- Method statement of concrete side walk;
- As Built drawing for 1000m³ water balance tank;
- Smoke detector- Alternative;
- As Built drawing for living Quarter building (Civil, Electrical & Mechanical);
- Preliminary Operation & Maintenance Manual for Section 34 : MCC;
- Test Report on Concrete Compressive Strength for rig and blow-off pads--28 Day Result) Ref: M/1601/344a;
- Test Report on Concrete Compressive Strength for Booster station walls& transformer (TR-01)pad--7 &35 Day Result) Ref: BM/CT/16020-A;
- Preliminary Operation & Maintenance Manual for Section 31 : PLC;
- Final operation & maintenance manual -Section 1,7,19,24 &39 Gate Valve, Ball valve, Bladder Surge Tank, Adjustable Pressure Switch & Fire Alarm System;
- Pre-commissioning test forms observations for Booster pump at Qabatiya well pump station;
- Commissioning Observations for Booster pump at Qabatiya well pump station;
- Performance test for Qabatiya well Submersible pump;
- Performance test for Qabatiya Booster pumps (P-310& P-320);
- Instrumentation & power cables (Alternatives);
- Results of field testing & inspections for (cable insulation and earthing) at Qabatiya pump station;
- Tack coat test (RC)-Report Ref. No: M/1602/422;
- Sample of interlocking block tiles;
- Preliminary operation & maintenance manual of chlorination system components;
- Training Materials(PLC,HMI and Operators field training);
- Preliminary O&M Manual for Medium voltage switchgear;
- Training outline for the submersible deep well pump and Trainer's CV;
- Mechanical shop drawing for washout drain pipes to Wadi adjacent to QBW pump station;

- Local maintenance facility qualification- for Qabatiya Booster Pumps;
- As Built drawings for Qabatiya Conveyance system;
- Shop drawing for SS 316 grating for 1000m³ balance tank pits;
- Angle Support & wedge anchor for grating support;
- Panel Boards / product data and shop drawings.

3.2. Labor and Equipment

3.2.1. Geo MIS

All Implementing Partners working for the West Bank and Gaza Mission track and record labor (work force) data relative to employment of Palestinian people. The Geo MIS system includes assignment of a job classification to each worker and summation of Job Days for each classification on the project. The following table includes the Geo MIS data recorded and submitted to the Mission relative to the reporting period.

- The total cumulative generated Man-Days previously 15219.14
- The total cumulative generated Man-Days current period 785.45
- The total cumulative generated Man-Days up to date are 16004.59

- Female employment generated previously 706.125
- Female employment generated current period 25
- Female employment generated up to date is 731.125

- The total cumulative previously 15925.27

- The total cumulative current period 810.45

- The total cumulative up to date is 16735.72

3.2.2. Project Beneficiaries

Total number of Beneficiaries is 78,140:

- Number of Male Beneficiaries 39687,3 Male = 50.79%
- Number of Female Beneficiaries 38452,7 Female = 49.21%
- Male Beneficiaries to Age 17 18748,3 47.24%
- Female Beneficiaries to Age 17 18165,05 47.24%
- Male Beneficiaries 18 to 25 6262,65 15.78%
- Female Beneficiaries 18 to 25 6067,83 15.78%
- Male Beneficiaries 26 and older 14676,36 36.98%
- Female Beneficiaries 26 and older 14219,8 36.98%

3.2.3. Equipment

Equipment List used during the reporting period is attached in the Appendix.

3.3. Meetings and Correspondence with USAID

- No CO meeting was held during the reporting period.

3.4. Meetings and Correspondence with CMC and Subcontractors

- Saturday – Feb 6TH.2016: Kick-off meeting with ABC, IC System, BHI representative to check all items related to the pre-commissioning, commissioning, startup and testing of the installed well pumping system.

- Thursday – Feb 11TH.2016: Bi-weekly meeting # 47 was held at the Engineer's primary field office.
- Thursday – Feb 18TH.2016: Technical coordination meeting with BV and USAID.

3.5. Procurement/Subcontract Actions

- The first subcontract that has been awarded to Site Group Company for the development of Qabatiya Well includes the removal of the existing submersible pump, fishing for the fallen pump (which was successfully completed) and installation of the new submersible pump – which was successfully completed on Jan 13TH.2016 in the presence of BHI representative. The second subcontract to Arab Brothers Contracting Co. for the installation of the conveyance system and construct all civil, mechanical and electrical works related to Qabatiya Well Site has been amended to include the VO's received from USAID.

- A subcontract has been awarded to MOREX 71 LTD. – Institute for Non-Destructive Testing to do all the required Radiographic testing for this project.
- Purchase Orders were issued for all long lead items and equipment; control system (hardware & software), motor control center, medium voltage Switch gear, column pipes and access monitoring PVC pipes, padmount transformer, hydro-pneumatic surge tank, VFDs for booster pumps, vertical turbine booster pumps, vertical turbine deep well submersible pump and disinfection system including eyewash/shower.

3.6. Quality Control

The Quality Control Manager prepared updated monthly submittal register log and Quality Control Plan. He also worked with Subcontractors to review and prepare subcontractors' QC plans. Request for Information log is also prepared. Moreover, some pending site memoranda related to non-complying construction works were addressed after performing the required corrective measures and other are progressing. Please see the attached updated logs.

During this reporting period; CDM Smith's QC/QA Manager coordinated a site visit by HCL lab technicians on the assigned dates to:

- Monday – Feb 1ST.2016: HCL technician collected samples of compacted base course for the subgrade of the well entrance and under the sidewalk.
- Wednesday – Feb 3RD.2016: HCL technician collected sample of curbstone delivered to Qabatiya Well from (to perform flexural strength & dimension of concrete curb stone)
- Thursday – Feb 4TH.2016: HCL technician collected samples of concrete for the slab on grade around balancing tank and electrical metering building.
- Saturday – Feb 20TH.2016: HCL technician collected samples of RC coat and asphalt mix along the conveyance system.
- Saturday – February 27TH.2016: HCL technician collected samples of RC coat and asphalt mix along the conveyance system.
- Sunday – February 28TH.2016: HCL technician collected samples of compacted base course under asphalt layer at the well yard and entrance.
- Monday – February 29TH.2016: HCL technician collected samples of MC primer coat and bituminous asphalt mixtures for the well yard and entrance.

Moreover, the CDM Smith's Quality Control Manager continued follow up inspection requests procedures and made sure that the three-phase inspection as well as the MRR (material receiving report) is being successfully implemented.

All welding works implemented under the direct supervision of QC/QA Manager and the attendance of the approved CWI.

In addition to that, CDM Smith's Quality Control Manager made sure that all materials and material's sample delivered and /or submitted to CMC are in line with Contract's documents and specifications.

3.7. Safety

CDM Smith's overall objective, along with USAID and the CMC, is to implement a Health and Safety Program that will reduce the number of injuries, exposures, and illnesses to an absolute minimum. Our mutual goal is ZERO accidents, exposures, and injuries. To date, we have succeeded in achieving no serious injuries.
CDM Smith's Site Safety engineer on daily basis and before start any activity check all safety tools, PPE, fire extinguishers, and first aid box, also he reminded and updated the labors to follow up the safety procedures, regulations and lessons Learned.

As Qabatiya well pump station project is in the final stage and most of construction activities are electrical and finishing works, CDM smith's safety engineer had checked the proper lockout / tag out and procedures to safeguard workers - as per OSHA requirements - to avoid any unexpected accident

CDM Smith's Site Safety engineer conducted tool box trainings on February 17th where technical safety topics were reviewed including the overall safe work procedures at Qabatiya Pump Station, the method of entry, exit, emergency cases, evacuation procedures, housekeeping, and the importance of using safety tools during the activity works.

CDM Smith's Safety Engineer conducted follow-up toolbox meetings in order to remind the labors of the importance of housekeeping and removing the surplus materials such as paintings' cans, concrete rubbish, etc. will be dumped as usual to the approved areas.

Lessons Learned

The prospect of getting into an accident is something no one likes to think about, and often we believe it can never happen to us. Only through training, monitoring, daily oversight, and the use of appropriate personal protective equipment (PPE), can we work to avoid accidents. As part of our culture of "Safety First", CDM Smith conducts regular safety related toolbox talks and employs an experienced Safety Engineer to lead these efforts. The incident that was happened is an important lesson in the importance of daily vigilance on all matters related to site safety.

CDM Smith and our Subcontractors will continue reviewing safety plans with site staff on a regular basis, and confirm that any new laborers are properly trained and outfitted with adequate PPE. Furthermore, because our team followed safety procedures and had the proper first aid kits on site, the employees involved in this incident were treated immediately.

Lesson learned 1

Daily Inspection for the safety tools = make the work activities easier and safer for all team works.

Lesson learned 2

TIDY SITE = SAFE SITE

Lesson learned 3

Updating the labors with safety regulations and emergency No. = will reduce a/o prevent incident.

Lesson learned 4

Proper tools, wearing PPE to achieve the activities = prevents or minimizes injury or illness to the user.

3.8. Environmental

The Area surrounded by Qabatiya well is classified as agricultural; it has been planted by local farmers with seasonal vegetation. However, the pipeline was implemented along the shoulder of the high way that was constructed by the USAID few years ago. The main objective of the project is to alleviate pressing shortages in water supply services in the towns of Qabatiya & Al-Zababdeh in addition to parts of Jenin City by supporting strategic investments in water wells, balancing tanks, booster pumps and conveyance systems. No major negative environmental impacts are envisaged since the project was invested in activities that support rehabilitation and improvements of infrastructure and service delivery. No land acquisition is required and the works constructing through the public right of way. The Potential negative impacts that were localized and limited in nature had been avoided by providing instructions in the contract documents that specifically address environmental issues in a manner acceptable by the contractor and the CMC, as well as following Good Management Practices during construction. More attention will be given to the use and disposal of hazardous chemical materials used in the construction like epoxy for water proofing works in reservoirs, chlorine used for the disinfection of water lines, and concrete additives. More attention will be taken to avoid the risk of soil erosion due to excavation activities. This is a significant impact especially in high sloped sections (If any exists).

The new main pipeline will replace the old existing one; the water discharge rate will not significantly change, thus no significant increase in wastewater amount will appear due to implementing Qabatiya project. Cesspits and septic tanks in the served communities will be adequate to carry the generated wastewater amounts.

Qabatiya project will not have any long-term adverse impacts on the natural or physical environment.

Finally and on monthly basis the environmental mitigation plan was updated and submitted to CMC considering any potential for adverse impact, also environmental check list is covering any missing item that were not considering or mitigated properly.

Qabatiya project is very close to completion as well as the activities at the well site are restricted in a finishing works of buildings and site leveling therefore the surplus materials such as paintings cans concrete rubbish, etc. will be damped as usual to the approved area.

At the beginning of the project an environmental plan was prepared according to the project specifications and submitted to the CMC and got approved, during this reporting period some Environmental activities were done such as removal of excess materials resulting from the trench excavations in the yard and from the concrete casting to the approved damping site, pumping out the septic tank of the temporary WC used by PWA staff at site and disposal of the sewer to approved site in addition to continuously housekeeping and dust control.

3.9. Public Relations

CDM Smith continued the coordination and public relations activities during the reporting period. Coordination with both Al Zababdeh and Qabatiya Municipalities is always on the highest level to resolve any issue and / or obstacle that might be encountered during the construction activities. Both Municipalities always show full cooperation and commitment to ease all obstacles and other project related issues (if any).

3.10. Project Permitting & Security

The location of the project in the north of the West Bank with parts of the project located in area C requires continuous coordination with civil administration to facilitate the mobility of CDM Smith and subcontractors' personnel and vehicles to the project site if checkpoints exist or if any activity needs coordination.

CDM Smith Logistics and Security Manager has regular coordination meetings with the coordination office in Beit El. CDM Smith Logistics and Security Manager is always ready to coordinate with the required authority, or with the civil administration to facilitate any difficulty that may face the project construction.

4. SCHEDULE

4.1. Progress vs. Planned

Updated CPM Schedule till end of February 2016 attached. Below is a summary of the project percentages of completion based on the latest updated schedule up to 29th February 2016. Final dates will be reflected in the final as-built schedule.

Performance % Complete =	99.38%
Schedule % Complete=	99.38%
Float =	Zero Days

5. OUTLOOK FOR NEXT REPORTING PERIOD

The following subsections provide information on anticipated activities through the next reporting period.

5.1. Planned Submission of Next Invoices

CDM Smith submitted Invoice #11 .This invoice covered the activities completed to the day of invoicing, payment No. 12 expected to be submitted first of March.

5.2. Planned Activities Anticipated During March 2016

The Following activities are anticipated to be submitted, constructed or implemented during March 2016:

- Project handing over.

5.3. Planned Staff Changes

The CDM Smith teams will actively searching for additional staff to serve in any area required to complete the project with the best quality and safe procedure. Any required position will be filled as needed and as the overall workload increases. Various technical specialists will also work from other CDM Smith offices and/or work TDY in the West Bank as needed.

5.4. Planned Meetings and Correspondence with USAID

CO meeting #20 was scheduled to be on March 1ST.2016.

5.5. Planned Meetings and Correspondence with CMC

Coordination meetings are scheduled for each Task Order every two weeks. Task Order 00006 meetings are expected every two weeks in each reporting period

5.6. Planned Meetings and Correspondence with Others

CDM Smith stands ready to meet with other stakeholders as needed.

6. ISSUES AND CONSTRAINTS

CDM Smith works to actively communicate potential problems to the CMC and USAID. The following subsections cover current and anticipated issues and constraints.

6.1. Administration

No administrative constraints were faced during the reporting period. The cooperation and the understanding of the project situation between the Contractor and the CMC allowed resolving all minor problems appeared during the reporting period.

6.2. Qabatiya Conveyance System

No issues at this time.

6.3 Qabatiya Well Site

6.4 Others

No issues

7 APPENDIX

- Photos
- Meeting Minutes
- Submittals summary table
- Geo MIS logs
- Inspection Request Log
- Invoices log
- Variation Order Log
- Equipment List
- Environmental check list
- Updated February CPM schedule

END OF REPORT

Task Order 00006 - Qabatiya Well, Pump Station and Conveyance

Appendix

Task Order 00006 Photos

HCL technician collecting compacted basecoarse sample under concrete sidewalks , 01 February 2016

Installation of tie rods for the sleeve couplings , 01 February 2016

Installation of steel reinforcement for concrete sidewalks , 02 February 2016

Installation of concrete curbstone at buildings' entrances , 03 February 2016

Programming of PLC prior to pre-commissioning stage, 04 February 2016

Connecting power cables to booster pump's electrical motor , 04 February 2016

Welding of pipes and fittings for water line going to Living Quarter and Chlorination Building , 06 February 2016

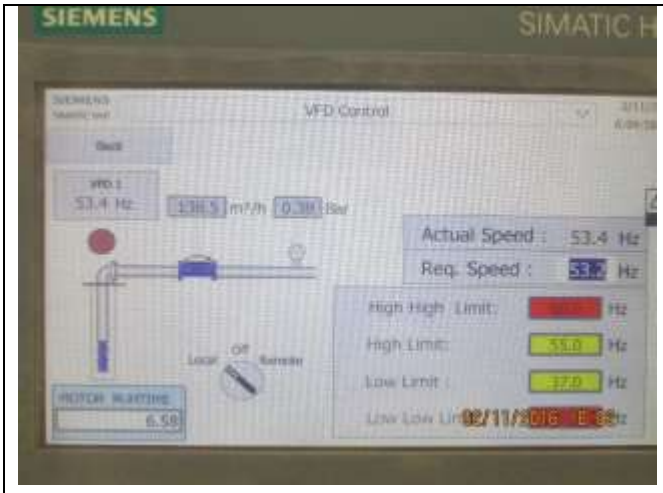
First start-up of the submersible well pump, 07 February 2016

Programming of PLC before pre-commissioning stage , 08 February 2016

Calibration of the adjustable pressure switch installed at booster's discharge line , 09 February 2016

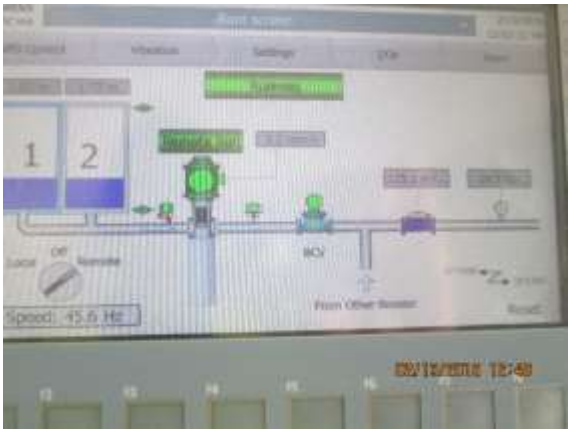
Training of WBWD trainees on the operation of chlorination system, 10 February 2016

Applying epoxy paint for external walls of balance tank , 10 February 2016



HMI display of data related to well pump's performance during pre-commissioning, 11 February 2016

Pressure transmitter during pre-commissioning stage , 12 February 2016



HMI display of data related to booster pump's performance during pre-commissioning , 13 February 2016

Installation of galvanized steel shed for boosters area , 15 February 2016

Installation of antenna transmitter for connecting Qabatiya Station to the SCADA system, 16 February 2016

Voltage readings of power meter installed at boosters' panel in the MCC, 17 February 2016

Volume of pumped water since first start-up of the well pump , 18 February 2016

HMI display of data related to well pump's operation during the commissioning period, 19 February 2016

Reading of pressure gauge installed at booster pump's discharge line , 20 February 2016

Asphalting works for Al-Zababdeh Main Street ,20 February 2016

Radiographic (X-ray) testing of steel welded joints at Qabatiya Pump Station , 21 February 2016

Well pump's VFD data display during the commissioning period , 22 February 2016

Boosters' data-log displayed by the HMI screen at the PLC panel , 23 February 2016

Field training session for WBWD trainees on the topic of operating control systems , 25 February 2016

Connecting Qabatiya Pump Station to the main power transmission line of Qabatiya Municipality, 28 February 2016

Safety toolbox meeting held at Qabatiya Pump Station, , 28 February 2016

Asphalting works for the yard of Qabatiya Pump Station, 29 February 2016

Applying USAID logo tags at all equipment of Qabatiya Pump Station, 29 February 2016

Task Order 00006 - Qabatiya Well, Pump Station and Conveyance

Appendix

Meeting Minutes

Meeting Minutes
Qabatiya Well Pump Station TO 13-00006
Bi-Weekly Progress Meeting #47

Date:
Thursday; February 11, 2016

Timing:
11:00 AM – 01:00 PM

Location:
Primary Field Office
Al Zababida, Palestine

Attendees:

PWA/WBWD	USAID	Black and Veatch	CDM Smith and Subcontractors
--	--	Mr. Mukhles Najajreh	Mr. Ghassan Butmeh
		Mr. Adam Awwad	Mr. Talal Mahasin
		Mr. Murad Daoud	Mr. Abed Baker
		Ms. Lubna Haj Hamad	Mr. Ali Nasser
		Mr. Tamer Assaf	

Notes Prepared by:
Mukhles Najajreh, Black & Veatch

Purpose:
Bi-weekly Progress Meeting for Qabatiya Well Pump Station and Conveyance System Project– TO 13-00006; aimed to review progress of work, discuss project issues and provide solutions where required.

We believe that these minutes accurately reflect what transpired at the meeting. Unless we are notified in writing to the contrary by 2 working days, the minutes will stand as written.

Abbreviation List:
***AAUJ**: Arab American University Jenin, **ASAP**: As Soon As Possible, **BCI:** Brain-Computer Interface; **BV:** Black and Veatch, **CM**: Coordination Meeting, **CO**: Contracting Officer, **DCL:** District Coordination Liaison, **CDM**: Camp Dresser & McKee, **DJR**: Daily Joint Report, **ECL**: Environmental Check List; **INFO:** Information, **MCC:** Motor Control Center; **MOM:** Minutes of Meeting, **MTS:** Manual Transfer Switch, **NCR:** Non Compliance Report, **OSHA:** Occupational Safety and Health Administration, **PLC:** Programmable Logic Controller, **PM:** Progress Meeting, **PWA:** Palestinian Water Authority, **QBW:** Qabatiya Well, **SCADA:** Supervisory Control and Data Acquisition; **SG:** Switch Gear, **USAID:** United States Agency for International Development, **VFD:** Variable Frequency Drive; **VOR:** Variation Order Request, **VO**: Variation Order, **WBWD**: West Bank Water Department.*

1. Project Key Data:

• Notice of Award	April 02, 2013
• Contract Signing	April 02, 2013
• Notice to Proceed	May 14, 2013
• Project Duration	550 Days
• Modified Project Duration	1021 Days
• Project Planned Completion Date	November 14, 2014
• Modified Completion Date	February 28, 2016
• Project Elapsed Time	1003 Days
• Project Planned Overall % of Completion	N/A
• Project Actual Overall % of Completion	N/A
• Total Float (Variance Duration)	N/A

2. Documents distributed at this meeting:

- Copy of Progress Meeting Agenda #47.
- Copy of Project Key Data.
- Two Weeks Look Ahead by CDM Smith.

3. Documents Attached:

- Progress Meeting Agenda #47.
- Attendees List.
- Two Weeks Look Ahead by CDM Smith.

4. Next Meeting is scheduled at 11:00 AM on Thursday, February 25, 2016 at Al Zababida, Palestine.

Items Discussed:

No.	Ref.	Description	Action By	Date
1	PM #15	**Safety and Environment.** **1.1 Housekeeping.** BV reminded CDM Smith to maintain and follow up the housekeeping especially interior of the buildings and inside electrical trenches all times in order to avoid work accidents. CDM Smith stated they will follow up this issue.	CDM Smith	All Times
	PM #46	**1.2 Lockout/Tagout.** BV emphasized on the importance of proper lockout/tagout practices and procedures to safeguard workers - as per OSHA requirements - to avoid accidents. CDM Smith stated they will follow up this issue.	CDM Smith	All Times
	PM#25	**1.3 Environmental Checklist Closeout.** BV reminded CDM Smith to close the pending ECL via an inspection request. CDM Smith acknowledged and stated that the checklists will be closed on Sunday; February 14, 2016.	CDM Smith	Feb 14, 2016
	PM #07	**1.4 Personal Protective Equipment (PPEs).** BV reminded CDM Smith that no one is allowed to enter the construction site without wearing PPE's in accordance to project safety requirement. CDM Smith stated they will follow up this issue.	CDM Smith	All Times
2	PM #36	**Quality.** **2.1 Closeout of Pending Site Memos.** BV urged CDM Smith to exert extra efforts to close all pending site memos. BV further advised that payment recommendation to certain items may be conditional to closing these site memos.	CDM Smith	ASAP
	PM #43	**2.2 Lab Recommendations for Test Reports.** BV advised that all third party testing reports submitted to Engineer shall include the laboratory recommendation based on the results, otherwise the submitted test's results will be unacceptable.	CDM Smith	All Times
3.	PM #01	**Progress of Work.** **3.1 Progress Summary by CDM Smith.** CDM Smith presented a brief progress of work and distributed a progress percentages (refer to attached copy) comparing the actual completion percentage and planned percentages for the project. Furthermore, CDM Smith stated that the reported delays (3 days) are recoverable.	Info	

	PM #01	**3.2 Two Weeks Look Ahead.** CDM Smith distributed the Two Weeks Look Ahead schedule during the meeting (refer to attached copy), and presented their work plan for the upcoming period. CDM Smith advised that installation of major equipment had been completed, while the ongoing / remaining activities are the followings: • Metal works, checkered plate, steel shed, ladders and grating. • Furnish asphalt layer for Qabatiya station's entrance and yard. • Milling and overlay along Az-Zababida main road. • Applying Dekguard FC coating for the external surface of the balancing tank. • Finalizing internal & external painting for all buildings. • Furnish and install furniture for the living quarter building. • Landscaping area. • Installation of the main entrance gate. • Rehabilitation of PWA/WBWD existing room as per VO#08. • Mechanical works for Qabatiya well station. • Electrical works for Qabatiya well station. • Connecting Qabatiya well station to SCADA system. CDM Smith advised that the planned date for BCI to start installation of well monitoring system is February 14, 2016, and further CDM Smith advised that the planned completion date for connecting Qabatiya well station to SCADA system is February 28, 2016.	**Info** **CDM Smith** **CDM Smith**	**Feb 14, 2016** **Feb 22, 2016** **Feb 18, 2016** **Feb 17, 2016** **Feb 24, 2016** **Feb 24, 2016** **Feb 21, 2016** **Feb 20, 2016** **Feb 25, 2016** **Feb 16, 2016** **Feb 16, 2016** **Feb 14, 2016** **Feb 28, 2016**
	PM #01	**3.3 Pre-commissioning and Commissioning.** CDM Smith advised that the pre-commissioning phase have been started on February 09, 2016 and they are progressing well in this regards. Furthermore, CDM Smith clarified that pumping to the networks and the well performance test in presence of Baker Hughes representative will be performed shortly. BV reminded CDM Smith to maintain the required startup records during testing and startup, and submit original to Engineer as per contract document.	**Info** **CDM Smith** **CDM Smith**	**Feb 09, 2016** **ASAP** **All Times**
4	**PM #37**	**Submittals.** **4.1 Preliminary & Final O&M.** CDM Smith advised that they are working on finalizing the O&M submittals and will submit them at the earliest. BV advised that for all equipment the calibration results and settings, as well as training materials shall be included in the final O&M Manuals. Furthermore, BV reminded that final O&M shall be submitted prior to starting the commissioning phase, as per contract documents.	**CDM Smith** **Info**	**ASAP**

	PM #34	**4.2 Training Requirements.** CDM Smith advised that they are working on finalizing the subject items and will be submitted accordingly. BV reminded CDM Smith to submit a comprehensive copy for all trainings containing evaluation forms filled by the trainees on the training material and instructors.	**CDM Smith**	**ASAP**
	PM #30	**4.3 As-Built Drawings.** BV enquired from CDM Smith about the planned submission date for the as-built drawings. CDM Smith advised that they are progressing well in regards of verification of record drawings, and further CDM Smith noted that the planned date for submission the first draft of as-built drawings is February 25, 2016.	**Info** **CDM Smith**	**Feb 25, 2016**
	PM #31	**4.4 Field Test Results.** BV reminded CDM Smith that as per specification the field tests' results shall be signed by Engineer on site, and accordingly submitted prior to starting the commissioning phase. Furthermore, BV stated that mill certificates for proper installation for all equipment shall be submitted to Engineer.	**CDM Smith**	**ASAP**
	PM #42	**4.5 Special Tools and Spare Parts.** BV urged CDM Smith to accelerate the submission of the spare parts and special tools lists, and reminded CDM Smith that the project is approaching the completion date and such activities are time consuming and may add further delays. BV further reminded CDM Smith to provide manufacturer's letter along with submittal for items that may addressed as "not applicable". Moreover, BV reminded CDM Smith that the special tools and spare parts lists that listed in section 17100 shall be coordinated with PWA/WBWD. CDM Smith advised that the lists will be submitted shortly.	**CDM Smith** **Info** **CDM Smith**	**ASAP** **ASAP**
5	**PM #26**	**<u>Financial.</u>** BV inquired from CDM Smith about the submission date of next payment. CDM Smith stated that the payment is under preparation and will be submitted shortly.	**Info** **CDM Smith**	**ASAP**
6	**PM #01**	**<u>Reports.</u>** **6.1 Monthly Report.** No issues were reported during the meeting.	**Info**	
	PM #01	**6.2 Daily Joint Report.** BV emphasized on the importance of starting the reported activities in the DJR with start/continue/finish; as these activities represent project milestone.	**CDM Smith**	**All Times**

End of Minutes

USAID WEST BANK/GAZA
INFRASTRUCTURE NEEDS PROGRAM INPII
TO 13-00006, QABATIYA WELL PROJECT (QBW)
BI-WEEKLY PROGRESS MEETING AGENDA #47

Date:

Thursday; February 11, 2016

Timing:

11:00 AM –12:00 PM

Location:

Primary Field Office
Al Zababida, Palestine

Attendees:

- PWA/WBWD.
- USAID.
- Black & Veatch.
- CDM Smith and Sub-Contractors.

Agenda:

1. **Safety & Environment.**
   - 1.1 Housekeeping.
   - 1.2 Lockout / Tagout.

2. **Quality.**
   - 2.1 Closeout Pending Site Memos.

3. **Progress of Work.**
   - 3.1 Progress Summary by CDM Smith.
   - 3.2 Two Weeks Look Ahead.
   - 3.3 Pre-commissioning & Commissioning.

4. **Submittals.**
   - 4.1 Preliminary & Final O&M.

West Bank/Gaza INP II Program Office
Black & Veatch Special Projects Corp
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Mecca Street, Al Bireh, West Bank
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Fax: +970 (2) 242 2088

Black & Veatch Special Projects Corp
6601 College Boulevard
Overland Park
Kansas 66211 USA
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Fax: +1 913 458 6535

4.2 Training Requirements.
4.3 As-Built Drawings.
4.4 Field Test Results.

5. Financial.

6. Reports.

6.1. Daily Joint Reports.

6.2. Monthly Reports.

7. Others.

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Kansas 66211 USA
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Subject: TO13-00006 QBW: Progress Meeting #47
Venue: B&V Office – Az-Zababdeh
Date: February 11, 2016
Time: From 11:00 AM to 12:00 PM

Attendees List

No.	Name	Title	Organization	Mobile Number	E-mail	Signature
1	Abdel Rahman Bakeer	Safety Eng.	CDM Smith	0592-997700	bakeerar@cdm.smith.com	
2	TAHAL MAHASIN	QC	cdm smith	0592-997702	mahasint@cdmsmith.com	
3	Ghassan Mahdi	PM	CDM Smith	0592997720	bubuclg@cdmsmith.com	
4	Lubna Haj Hamad	Sr. OE	B & V	0598934661	HajhamadL@Bv.com	Lubna
5	~~Najajreh~~					
6	Mukhles Najajreh	PM	B & V	0598 934660	NajajrehH@Bv.com	
7	Mufeed Daoud	QA/QC	BV	0598/1444618	DaoudM@bv.com	
8	Adam Awwad	R.E	B.V	0592997709	Awwad@bv.com	
9	Tamer Assaf	GC	B&V	0592997767	ASsaf-t@bv.com	
10	Ali Naser	GM	ABC	0599240641	ali@a-brothers.com	
11						
12						
13						
14						
15						
16						
17						

CDM Smith - Constructors Inc

Date: 11th February, 2016

Updated CPM Schedule Till: 11th February, 2016

- **Qabatiya Well Pump Station and Conveyance System:**

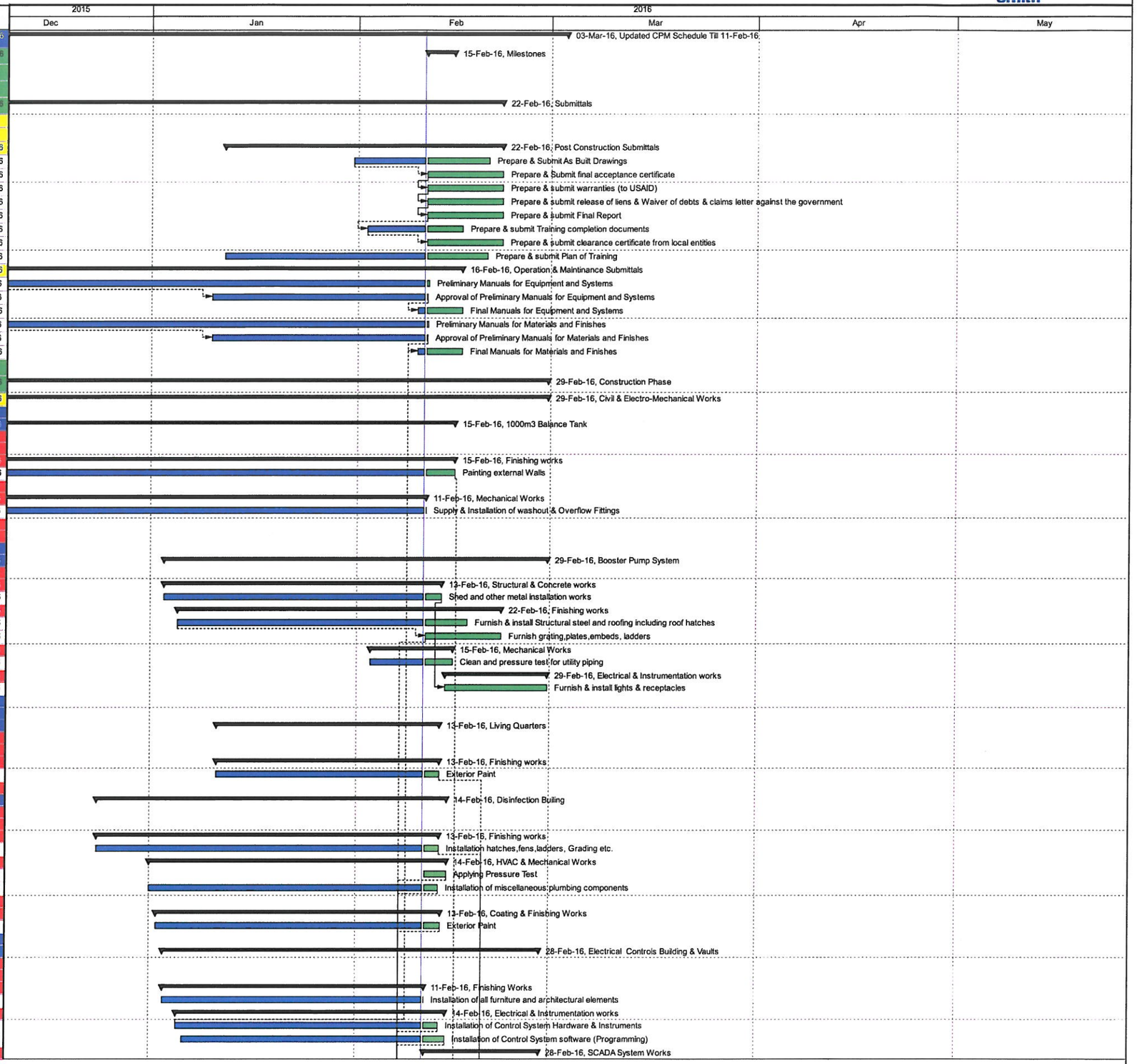
  - Planned Start Date = 14th May 2013
  - Planned Finish Date = 28th February 2016

  - Planned % complete = 97.94%
  - Performance % complete = 95.17%
  - Float (days) = - 3

Updated CPM Schedule Till 11-Feb-16- Two Weeks Look Ahead

CPM Smith

Activity ID	Activity Name	Original Duration	Start	Finish
Updated CPM Schedule Till 11-Feb-16		145	10-Oct-15 A	03-Mar-16
Milestones		4	11-Feb-16	15-Feb-16
Coordination with PWA & Engineer Before Construction Pha		0		
Mobilization		0		
Submittals		136	10-Oct-15	22-Feb-16
Pre-Construction Submittals		0		
Material Submittals		0		
Post Construction Submittals		34	12-Jan-16	22-Feb-16
POSS-030	Prepare & Submit As Built Drawings	10	31-Jan-16	20-Feb-16
POSS-050	Prepare & Submit final acceptance certificate	10	11-Feb-16	22-Feb-16
POSS-070	Prepare & submit warranties (to USAID)	10	11-Feb-16	22-Feb-16
POSS-090	Prepare & submit release of liens & Waiver of debts & claims le	10	11-Feb-16	22-Feb-16
POSS-110	Prepare & submit Final Report	10	11-Feb-16	22-Feb-16
POSS-130	Prepare & submit Training completion documents	10	02-Feb-16	16-Feb-16
POSS-150	Prepare & submit clearance certificate from local entities	10	11-Feb-16	22-Feb-16
POSS-190	Prepare & submit Plan of Training	24	12-Jan-16	20-Feb-16
Operation & Maintinance Submittals		126	10-Oct-15	16-Feb-16
O&M 7790	Preliminary Manuals for Equipment and Systems	116	10-Oct-15	11-Feb-16
O&M 7800	Approval of Preliminary Manuals for Equipment and Systems	24	10-Jan-16	11-Feb-16
O&M 7810	Final Manuals for Equipment and Systems	10	10-Feb-16	16-Feb-16
O&M 7830	Preliminary Manuals for Materials and Finishes	64	01-Dec-15	11-Feb-16
O&M 7840	Approval of Preliminary Manuals for Materials and Finishes	24	10-Jan-16	11-Feb-16
O&M 7850	Final Manuals for Materials and Finishes	10	10-Feb-16	16-Feb-16
Procurement		0		
Construction Phase		143	10-Oct-15	29-Feb-16
Civil & Electro-Mechanical Works		143	10-Oct-15	29-Feb-16
Existing Well Pump Works 1st Phase		0		
1000m3 Balance Tank		120	10-Oct-15	15-Feb-16
Construction Submittals		0		
Balance Tank Civil Works		0		
Finishing works		96	10-Oct-15	15-Feb-16
BT-250	Painting external Walls	96	10-Oct-15	15-Feb-16
Metal Fabricated Works		0		
Mechanical Works		60	20-Nov-15	11-Feb-16
BT-370	Supply & Installation of washout & Overflow Fittings	60	20-Nov-15	11-Feb-16
Electrical & Instrumentation works		0		
Balance Test		0		
Retaining Wall Works		0		
Booster Pump System		58	03-Jan-16	29-Feb-16
Shop Drawing Submittals		0		
Structural & Concrete works		33	03-Jan-16	13-Feb-16
BPS-090	Shed and other metal installation works	33	03-Jan-16	13-Feb-16
Finishing works		40	05-Jan-16	22-Feb-16
BPS-110	Furnish & install Structural steel and roofing including roof hatcl	28	05-Jan-16	17-Feb-16
BPS-120	Furnish grating,plates,embeds, ladders	10	11-Feb-16	22-Feb-16
Mechanical Works		4	03-Feb-16	15-Feb-16
BPS-240	Clean and pressure test for utility piping	4	03-Feb-16	15-Feb-16
Electrical & Instrumentation works		14	14-Feb-16	29-Feb-16
BPS-220	Furnish & install lights & receptacles	14	14-Feb-16	29-Feb-16
Septic Tank		0		
Seepage Tank		0		
Living Quarters		24	11-Jan-16	13-Feb-16
Construction Submittals		0		
Structural & Concrete works		0		
Finishing works		19	11-Jan-16	13-Feb-16
LQB-280	Exterior Paint	19	11-Jan-16	13-Feb-16
Electromechanical works		0		
Disinfection Builing		53	24-Dec-15	14-Feb-16
Construction Submittals		0		
Structural & Concrete works		0		
Finishing works		32	24-Dec-15	13-Feb-16
DFN-230	Installation hatches,fens,ladders, Grading etc.	32	24-Dec-15	13-Feb-16
HVAC & Mechanical Works		35	01-Jan-16	14-Feb-16
DFN-295	Applying Pressure Test	3	11-Feb-16	14-Feb-16
DFN-390	Installation of miscellaneous plumbing components	26	01-Jan-16	13-Feb-16
Electrical & Instrumentation works		0		
Coating & Finishing Works		26	02-Jan-16	13-Feb-16
DFN-288	Exterior Paint	26	02-Jan-16	13-Feb-16
Electrical Metering Building		0		
Electrical Controls Building & Vaults		57	03-Jan-16	28-Feb-16
Construction Submittals		0		
Structure & Concrete works		0		
Finishing Works		24	03-Jan-16	11-Feb-16
ECB-270	Installation of all furniture and architectural elements	24	03-Jan-16	11-Feb-16
Electrical & Instrumentation works		25	05-Jan-16	14-Feb-16
ECB-370	Installation of Control System Hardware & Instruments	24	05-Jan-16	13-Feb-16
ECB-371	Installation of Control System software (Programming)	24	06-Jan-16	14-Feb-16
SCADA System Works		15	11-Feb-16	28-Feb-16



Actual Level of Effort | Remaining Work | Milestone
Actual Work | Critical Remaining Work | summary

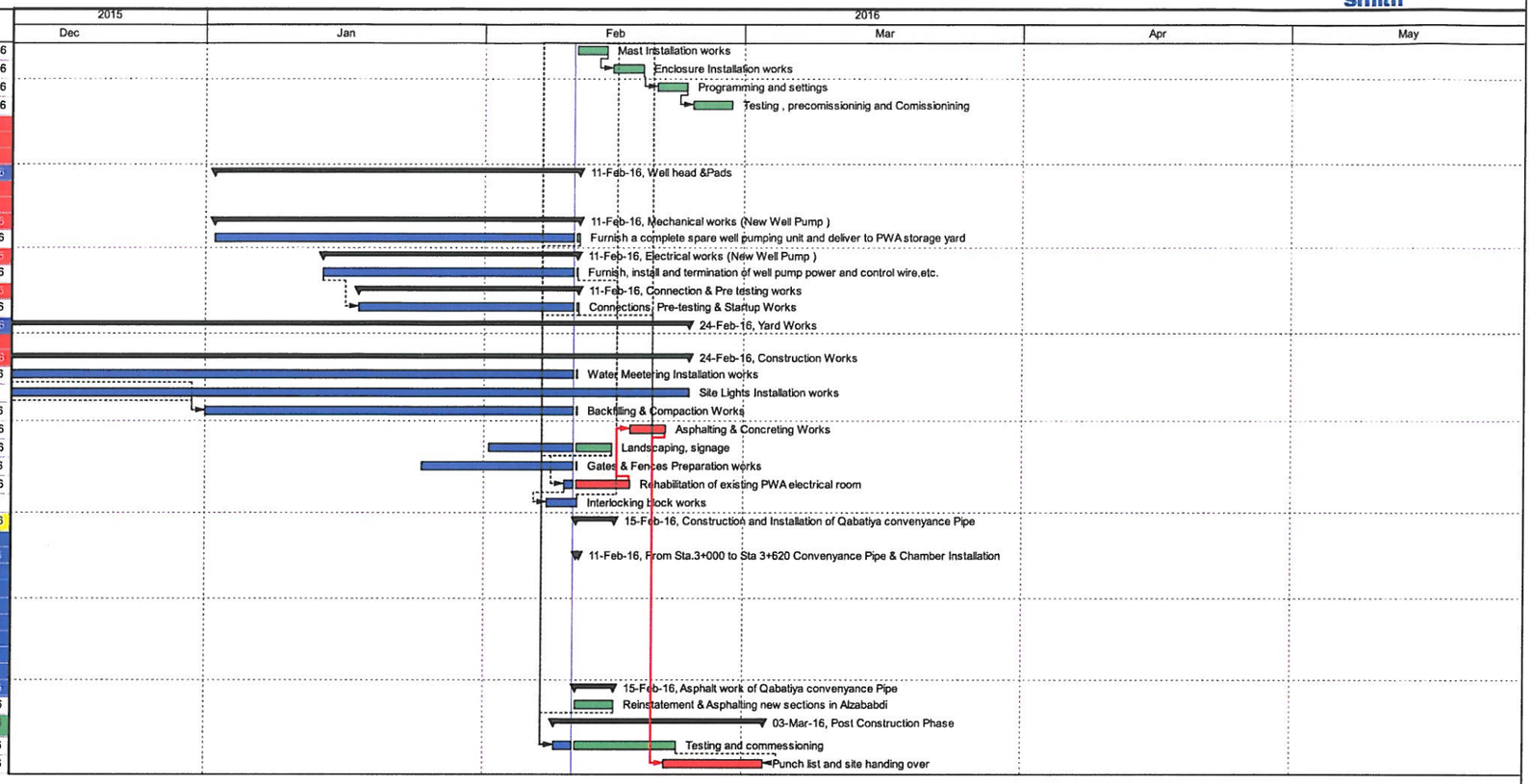
Page 1 of 2

TASK filter: 2 Weeks Ahead.

Updated CPM Schedule Till 11-Feb-16- Two Weeks Look Ahead

CDM Smith

Activity ID	Activity Name	Original Duration	Start	Finish
A7850	Mast Installation works	3	11-Feb-16	14-Feb-16
A7860	Enclosure Installation works	4	15-Feb-16	18-Feb-16
A7870	Programming and settings	4	20-Feb-16	23-Feb-16
A7880	Testing , precomissioninig and Comissionining	4	24-Feb-16	28-Feb-16
Mechanical Works		0		
Coating & Finishing works		0		
Pre testing works		0		
Well head &Pads		31	02-Jan-16	11-Feb-16
Well Head Submittals		0		
Structural Works		0		
Mechanical works (New Well Pump)		25	02-Jan-16	11-Feb-16
WHP-110	Furnish a complete spare well pumping unit and deliver to PWA	25	02-Jan-16	11-Feb-16
Electrical works (New Well Pump)		14	14-Jan-16	11-Feb-16
WHP-150	Furnish, install and termination of well pump power and control	14	14-Jan-16	11-Feb-16
Connection & Pre testing works		13	18-Jan-16	11-Feb-16
WHP-117	Connections, Pre-testing & Startup Works	13	18-Jan-16	11-Feb-16
Yard Works		118	26-Oct-15	24-Feb-16
Construction Submittals		0		
Construction Works		95	26-Oct-15	24-Feb-16
YAW1045	Water Meetering Installation works	59	22-Nov-15	11-Feb-16
YAW1050	Site Lights Installation works	79	26-Oct-15	24-Feb-16
YAW1060	Backfilling & Compaction Works	24	01-Jan-16	11-Feb-16
YAW1080	Asphalting & Concreting Works	3	17-Feb-16	21-Feb-16
YAW1090	Landscaping, signage	4	01-Feb-16	15-Feb-16
YAW1100	Gates & Fences Preparation works	7	25-Jan-16	11-Feb-16
YAW1110	Rehabilitation of existing PWA electrical room	6	10-Feb-16	17-Feb-16
YAW1120	Interlocking block works	5	08-Feb-16	11-Feb-16
Construction and Installation of Qabatiya convenyance Pipe		5	11-Feb-16	15-Feb-16
Construction Submittals		0		
From Sta.3+000 to Sta 3+620 Convenyance Pipe & Chamber Installation		1	11-Feb-16	11-Feb-16
From Sta.2+500 to Sta 3+000 Convenyance Pipe & Chamber Installation		0		
From Sta.2+000 to Sta 2+500 Convenyance Pipe & Chamber Installation		0		
From Sta.1+500 to Sta 2+000 Convenyance Pipe & Chamber Installation		0		
From Sta.1+000 to Sta 1+500 Convenyance Pipe & Chamber Installation		0		
From Sta.0+500 to Sta 1+000 Convenyance Pipe & Chamber Installation		0		
From Sta.0+000 to Sta 0+ 500 Convenyance Pipe & Chamber Installation		0		
Final conveyance system connection works		0		
Asphalt work of Qabatiya convenyance Pipe		5	11-Feb-16	15-Feb-16
CP1900	Reinstatement & Asphalting new sections in Alzababdi	5	11-Feb-16	15-Feb-16
Post Construction Phase		16	09-Feb-16	03-Mar-16
A6775	Testing and commessioning	15	09-Feb-16	22-Feb-16
A6776	Punch list and site handing over	10	21-Feb-16	03-Mar-16



Actual Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone
summary

Page 2 of 2

TASK filter: 2 Weeks Ahead.

Task Order 00006 - Qabatiya Well, Pump Station and Conveyance

Appendix

Submittals Summary Log

Submittal #	Submittal Name	Date Submitted To Client	Date Returned From Engineer	Status
SUB-13-00006-QBW-098B	Panel Boards / product data and shop drawings	16/02/2016	22/02/2016	E
SUB-13-00006-QBW-256B	Angle Support & wedge anchor for grating support	16/02/2016	21/02/2016	E
SUB-13-00006-QBW-394B	Shop drawing for SS 316 grating for 1000m³ balance tank pits	16/02/2016	21/02/2016	E
SUB-13-00006-QBW-470B	As Built drawings for qabatiya Convryance system	14/02/2016		
SUB-13-00006-QBW-568C	local maintenance facility qualification- for Qabatiya Booster Pumps	17/02/2016		
SUB-13-00006-QBW-711B	Mechanical shop drawing for washout drain pipes to wadi adjacent to QBW pump station	11/02/2016	25/02/2016	B
SUB-13-00006-QBW-731B	Training outline for the submersible deep well pump and Trainer's CV	17/02/2016		
SUB-13-00006-QBW-815B	Preliminary O&M Manual for Medium voltage switchgear	07/02/2016	10/02/2016	A
SUB-13-00006-QBW-873B	Training Materials(PLC,HMI and Operators field training)	14/02/2016	29/02/2016	B
SUB-13-00006-QBW-876B	Preliminary operation & maintenance manual of chlorination system components	25/02/2016	29/02/2016	B
SUB-13-00006-QBW-886B	Factory Test Report for the Surge Tank	04/02/2016	07/02/2016	A
SUB-13-00006-QBW-913A	Shop drawing for fence details around transformer	01/02/2016	Retracted 2/2/2016	
SUB-13-00006-QBW-913A	Test certificate of portable air compressor	02/02/2016	07/02/2016	A
SUB-13-00006-QBW-914A	Degree of compaction test (field density -sampling date Feb1st,2016)Ref.No:M/1602/3	02/02/2016	07/02/2016	A
SUB-13-00006-QBW-915A	Degree of compaction test (field density) for the bascoarse layer blow concrete sidewalks-report Ref.No:M/1602/22	02/02/2016	07/02/2016	A
SUB-13-00006-QBW-916A	Up date risk management plan for January 2016	04/02/2016	07/02/2016	A
SUB-13-00006-QBW-917A	Monthly updates for environmental monitoring and mitigation plan for January 2016	04/02/2016	07/02/2016	A
SUB-13-00006-QBW-918A	Updated CPM Schedule until 31 January 2016	04/02/2016	15/02/2016	B
SUB-13-00006-QBW-919A	Monthly QA/QC and Safety Plans Updates for January 2016	07/02/2016	07/02/2016	A
SUB-13-00006-QBW-920A	Degree of compaction test (field density) for the bascoarse layer blow interlocking sidewalks Tiles -report Ref.No:M/1602/100	07/02/2016	07/02/2016	A
SUB-13-00006-QBW-921A	Test Report on Concrete Compressive Strength for Fence wall footing transformer pads(1&2)& well metering pad--7 &28 Day Result) Ref: BM/38203	07/02/2016	10/02/2016	A
SUB-13-00006-QBW-922A	Test Report on Concrete Compressive Strength for top parts of transformer pads(1&2)--7 &28 Day Result) Ref: BM/38227	07/02/2016	10/02/2016	A
SUB-13-00006-QBW-923A	Test Report on Concrete Compressive Strength for SOGof booster station & western part of fence wall-7 &28 Day Result) Ref: BM/38322	07/02/2016	10/02/2016	A
SUB-13-00006-QBW-924A	Test Report on Concrete Compressive Strength for BT inlet metering pad-7 &28 Day Result) Ref: BM/38357	07/02/2016	10/02/2016	A
SUB-13-00006-QBW-925A	Test Report on Concrete Compressive Strength for wellhead pad-7 &28 Day Result) Ref: BM/38356	07/02/2016	10/02/2016	A
SUB-13-00006-QBW-926A	Sample of interlocking block tiles	07/02/2016	P	

Submittal #	Submittal Name	Date Submitted To Client	Date Returned From Engineer	Status
SUB-13-00006-QBW-927A	Updated Submittal Registry (up to Jan 31 2016)	08/02/2016	10/02/2016	A
SUB-13-00006-QBW-928A	Test report of flexural strength & dimension of concrete curbeastone Ref: M/1602/50	10/02/2016	11/02/2016	A
SUB-13-00006-QBW-929A	Final Operation & Maintenance Manual for Section 32: Step-up Transformer (Draft)	10/02/2016	29/02/2016	A
SUB-13-00006-QBW-930A	Motor insulation test	11/02/2016	11/02/2016	A
SUB-13-00006-QBW-931A	Cable insulation test	11/02/2016	11/02/2016	A
SUB-13-00006-QBW-932A	Chemical and microbiological analytical report for 1000 m3 Qabatiya water balance tank	11/02/2016	29/02/2016	A
SUB-13-00006-QBW-933A	Final Operation & Maintenance Manual for Section 17: Booster Pumps & Electric Motors	11/02/2016	29/02/2016	A
SUB-13-00006-QBW-934A	Final Operation & Maintenance Manual for Section 30: Medium Voltage Switchgear	11/02/2016	29/02/2016	A
SUB-13-00006-QBW-935A	Certification of proper installation for the surge bladder tank	14/02/2016	21/02/2016	A
SUB-13-00006-QBW-936A	Coordination Study for Equipment and Instruments of Qabatiya Well Pump Station	14/02/2016	22/02/2016	A
SUB-13-00006-QBW-937A	Final operation & maintenance manual for section 18:Submersible well pump	14/02/2016	29/02/2016	A
SUB-13-00006-QBW-938A	Test Report on Concrete Compressive Strength for slab on grade around balancing tank & electrical metering building--7 Day Result) Ref: M/1602/124	14/02/2016	15/02/2016	A
SUB-13-00006-QBW-939A	Final operation & maintenance manual for section 28: Varible frequency drive of well pump	14/02/2016	29/02/2016	A
SUB-13-00006-QBW-940A	Final operation & maintenance manual for section 29: Varible frequency drive of Booster pump	15/02/2016	29/02/2016	A
SUB-13-00006-QBW-941A	Final operation & maintenance manual for section 33: Step-down transformer	15/02/2016	29/02/2016	A
SUB-13-00006-QBW-942A	Revised CPM Schedule up to 2 Feb 2016	16/02/2016	25/02/2016	B
SUB-13-00006-QBW-943A	Preliminary Operation & Maintenance Manuals (Sections 6, 8, 10 & 45)	16/02/2016	29/02/2016	B
SUB-13-00006-QBW-944A	Results of field testing & inspections for instruments of Qabatiya pump station	17/02/2016	22/02/2016	A
SUB-13-00006-QBW-945A	Test Report on cement block for paving (interlock block), Ref.: M/1602/134 & M/1602/134a	18/02/2016	22/02/2016	A
SUB-13-00006-QBW-946A	Method statement of concrete side walk	18/02/2016	25/02/2016	B
SUB-13-00006-QBW-947A	As Built drawing for 1000m^3 water balance tank	18/02/2016	Retracted 2/3/2016	
SUB-13-00006-QBW-948A	Smoke detector- Alternative	21/02/2016	25/02/2016	A
SUB-13-00006-QBW-949A	As Built drawing for living Quarter building (Civil , Electrical & Mechanical)	21/02/2016	Retracted 2/3/2016	
SUB-13-00006-QBW-950A	Preliminary Operation & Maintenance Manual for Section 34 : MCC	24/02/2016	29/02/2016	B
SUB-13-00006-QBW-951A	Test Report on Concrete Compressive Strength for rig and blow-off pads--28 Day Result) Ref:M/1601/344a	22/02/2016	22/02/2016	A
SUB-13-00006-QBW-952A	Test Report on Concrete Compressive Strength for Booster station walls& transformer (TR-01)pad--7 &35 Day Result) Ref: BM/CT/16020-A	23/02/2016	25/02/2016	A

USAID/West Bank-Gaza-AID-296-TO-13-00006
Qabatiya Well Pump Station Conveyance Pipeline
Submittal Log

Submittal #	Submittal Name	Date Submitted To Client	Date Returned From Engineer	Status
SUB-13-00006-QBW-953A	Preliminary Operation & Maintenance Manual for Section 31 : PLC	24/02/2016		
SUB-13-00006-QBW-954A	Final operation & maintenance manual -Section 1,7,19,24 &39 GateValve,Ball valve, Bladder Surge Tank,Adjustable Pressure Switch & Fire Alarm System	24/02/2016	29/02/2016	A
SUB-13-00006-QBW-955A	Pre-commissioning test forms observations for Booster pump at Qabatiya well pump station	28/02/2016		
SUB-13-00006-QBW-956A	Commissioning Observations for Booster pump at Qabatiya well pump station	28/02/2016		
SUB-13-00006-QBW-957A	Preformance test for Qabatiya well Submersible pump	28/02/2016		
SUB-13-00006-QBW-958A	Preformance test for Qabatiya Booster pumps (P-310& P-320)	28/02/2016		
SUB-13-00006-QBW-959A	instrumentation & power cables (Alternatives)	29/02/2016		
SUB-13-00006-QBW-960A	Results of field testing & inspections for (cable insulation and earthing) at Qabatiya pump station	29/02/2016		
SUB-13-00006-QBW-961A	Tack coat test (RC)-Report Ref. No: M/1602/422	29/02/2016	02/03/2016	A

Task Order 00006 - Qabatiya Well, Pump Station and Conveyance

Appendix

Invoices Log

USAID WESR BANK/GAZA

INFRASTRUCTURE NEEDS Program

INVOICES LOG SHEET

TASK ORDER NO. : AID-294-TO-13-00006

Qabatiya Well Pump Station and Conveyance System

Invoice #	Invoiced amount	Cumulative amount	BOQ amount	Contract Value (include DW)	Remaining Amount	Date Received by B&V	Invoice Status	COR
1	$ 261,286.00	$ 261,286.00	$ 6,858,760.00	$ 7,408,760.00	$ 6,597,474.00	7/18/2013	Paid	Anan Masri
2	$ 64,720.88	$ 326,006.88	$ 6,858,760.00	$ 7,408,760.00	$ 7,082,753.12	12/1/2013	Paid	Anan Masri
3	$ 514,208.49	$ 840,215.37	$ 6,858,760.00	$ 7,408,760.00	$ 6,568,544.63	1/19/2014	Paid	Anan Masri
4	$ 248,893.01	$ 1,089,108.38	$ 6,858,760.00	$ 7,408,760.00	$ 6,319,651.62	3/6/2014	Paid	Anan Masri
5	$ 139,266.38	$ 1,228,374.76	$ 6,858,760.00	$ 7,408,760.00	$ 6,180,385.24	6/1/2014	Paid	Anan Masri
6	$ 121,525.77	$ 1,349,900.53	$ 6,858,760.00	$ 7,408,760.00	$ 6,058,859.47	8/20/2014	Paid	Anan Masri
7	$ 118,835.85	$ 1,468,736.38	$ 6,858,760.00	$ 7,408,760.00	$ 5,940,023.62	10/29/2014	Paid	Anan Masri
8	$ 246,975.61	$ 1,715,711.99	$10,709,995.00	$ 10,709,995.00	$ 8,994,283.01	3/29/2015	Paid	Anan Masri
9	$ 136,404.36	$ 1,852,116.35	$10,659,519.27	$ 10,709,995.00	$ 8,807,402.92	10/21/2015	Paid	Anan Masri
10	$ 93,059.97	$ 1,945,176.32	$10,659,519.27	$ 10,709,995.00	$ 8,714,342.95	12/20/2015	Paid	Anan Masri
11	$ 4,454,629.57	$ 6,399,805.89	$10,646,204.92	$ 10,709,995.00	$ 4,246,399.03	2/23/2016	Paid	Anan Masri

Task Order 00006 - Qabatiya Well, Pump Station and Conveyance

Appendix

Variation Order Log

VO NO.	Description	Variation Order Amount	USAID Signing Date
VO-00006-QBW-001	Time Extension	$0.00	20-Sep-13
VO-00006-QBW-002	Roackfill layer Under the Balancing tank	$73,926.51	30-Oct-13
VO-00006-QBW-003	Construction of Retaining Wall around the Balancing Tank	$234,479.52	3-Dec-13
VO-00006-QBW-004	Substitution of Pipe Zone Backfill material (Bedding Materials), Mechanical Changes in the Conveyance Pipeline Connection Chambers, Change the staging Area, Change in the Mobilization and New Definitive Project Quantities	-$121,176.62	10-Oct-14
VO-00006-QBW-005	Modification No.1-Redesign of Qabatiya Pump Station	$3,664,005.59	24-Dec-14
VO-00006-QBW-006	Mechanical Changes in Chambers and final Definitive Quantities for Qabatiya Conveyance System	($4,490.98)	24-Apr-15
VO-00006-QBW-007	PARTIAL ACCEPTANCE FOR QABATIYA CONVEYANCE SYSTEM AND CHANGES IN REQUIREMENTS	($45,984.75)	9-Oct-15
VO-00006-QBW-008	NEW ITEM, CHANGES IN REQUIREMENTS, PRE-DEFINITIVE QUANTITIES AND TIME EXTENSION	$16,407.97	2-Feb-16
VO-00006-QBW-009	CHANGES IN REQUIREMENTS, PRE-FINAL DEFINITIVE QUANTITIES AND TIME EXTENSION	($29,722.32)	23-Feb-16

Task Order 00006 - Qabatiya Well, Pump Station and Conveyance

Appendix

Geo MIS logs

USAID WEST BANK/ GAZA

INFRASTRUCTURE NEEDS PROGRAM INPII

CONTRACT NO. :AID-294-I-00-12-00001

TASK ORDER NO. : AID-294-TO-13-00006

Qabatiya Well Pump Station and Conveyance System

Temproray Job Days Summary Report

Task Order Name: To-13-00006 **PERIOD FROM: 5/14/2013**

Sub-project or Activity Name: Qabatiya Well Pump Station and Conveyance System **PERIOD TO: 2/29/2016**

CONTRACTOR: CDM Smith

Date		Site Staff Job Days**					Total Job Days	No of Full Time Equivalent (FTE) Jobs in the Month*	Notes of Comments
Month	Year	Management	Engineers	Skilled Labor	Unskilled Labor	Other			
May	2013	86.88	44.13	0.00	0.00	2.50	133.50	6	
June	2013	125.25	50.88	3.63	0.00	0.00	179.75	8	
July	2013	114.75	44.00	79.25	46.00	16.63	300.63	13	
August	2013	93.38	72.63	0.00	22.00	0.00	188.00	8	
September	2013	127.13	179.00	72.38	32.13	3.75	414.38	17	
Total of FY 2013							1216.25	51	
October	2013	124.63	179.13	88.63	39.13	8.13	439.63	18	
November	2013	101.25	172.63	49.13	36.50	0.00	359.50	15	
December	2013	109.00	164.38	139.25	67.13	0.00	479.75	20	
January	2014	105.13	174.25	205.00	166.88	7.88	659.13	28	
February	2014	102.63	190.00	193.00	211.63	42.13	739.38	31	
March	2014	114.00	207.25	129.50	122.38	21.13	594.25	25	
April	2014	115.50	233.13	78.38	79.13	0.00	506.13	21	
May	2014	105.63	173.38	213.88	112.88	0.00	605.75	25	
June	2014	107.00	150.38	151.13	117.50	6.00	532.00	22	
July	2014	81.50	65.00	16.75	114.88	0.50	278.63	12	
August	2014	112.25	101.50	131.25	216.63	4.13	565.75	24	
September	2014	107.13	78.63	207.88	93.75	4.13	491.50	21	
Total of FY 2014							6251.38	263	
October	2014	84.38	60.50	186.13	185.13	0.00	516.13	21.69	
November	2014	109.63	59.25	195.13	183.50	9.38	556.88	23.40	
December	2014	127.63	52.88	195.38	122.50	3.38	501.75	21.08	
January	2015	94.88	95.13	145.50	67.25	4.13	406.88	17.10	
February	2015	88.38	117.25	40.75	43.50	0.00	289.88	12.18	
March	2015	89.50	159.50	31.38	87.63	9.50	377.50	15.86	
April	2015	92.50	152.00	36.13	70.63	13.75	365.00	15.34	
May	2015	95.50	146.63	62.88	76.25	11.00	392.25	16.48	
June	2015	93.13	146.75	79.00	61.63	21.88	402.38	16.91	
July	2015	81.13	95.88	120.50	79.88	20.38	397.75	16.71	
August	2015	101.88	161.75	136.88	116.75	28.75	546.00	22.94	
September	2015	86.88	135.63	141.88	98.88	22.00	485.25	20.39	
Total of FY 2015							5237.63	220.07	
October	2015	99.50	154.63	181.50	168.75	28.00	632.38	26.57	
November	2015	99.38	155.75	200.38	172.00	23.25	650.75	27.34	
December	2015	126.63	166.13	411.88	261.25	41.88	1007.75	42.34	
January	2016	94.38	166.38	381.50	248.88	38.00	929.13	39.04	
February	2016	83.20	183.13	357.13	161.00	26.00	810.45	34.05	
Total of FY 2016							4030.45	169.35	

Note :

* No of Full Time Equivalent (FTE) Jobs in the Month = Total Job Days / Avg. Days in the Month(23.8)

** This data collection sheet is for Palestinian staff only , experts and foreign employee shall not be included.

USAID WEST BANK/ GAZA

INFRASTRUCTURE NEEDS PROGRAM INPII

CONTRACT NO. :AID-294-I-00-12-00001

TASK ORDER NO. : AID-294-TO-13-00006

Qabatiya Well Pump Station and Conveyance System

Temproray Job Days Report

Task Order Name: TO-13-00006

Sub-project or Activity Name: Qabatiya Well Pump Station and Conveyance System

CONTRACTOR:CDM Smith

SUBCONTRACTOR(s): Arab Brothers

SUBCONTRACTOR :Site Group CO. LTD

DATE	Name of Contractor /Subcontractor	Site Staff Job Days **																			Man-days*				
		Worker/Classification (Hours)																							
		Management				Engineers								Skilled labor			Unskilled labor			Other					
		Task Order Manager	Quality Control Manager	Safety & Envi. Manager	Project Manager #1, #2, etc ..	Electrical Engineer	Project Engineer	Office Engineer	Quality Control Engineer	Contract Specialist	Civil Engineer	Site Engineer	Survy Engineer	Mechanical Engineer	Foreman	Skilled Labor*	Equipment Operator	Flagman	Office Boy	Unskilled Labor	Driver		Total Management	Total Engineers	Total Skilled	Total Unskilled	Total Other
February 1, 2016	CDM Smith	8	8	8			9							8					8							
	Arab Brothers					9		8				8	9			88	18			48	8		3	6	13.25	7	1
	Site Group																									
February 2, 2016	CDM Smith	8	8	8			8							8					8							
	Arab Brothers					8		8				8	8			88	16			48	8		3	6	13	7	1
	Site Group																									
February 3, 2016	CDM Smith	8	8	8			8							8					8							
	Arab Brothers					8		8				8	8			88	16			48	8		3	6	13	7	1
	Site Group																									
February 4, 2016	CDM Smith	8	8	8		8	8							8					8							
	Arab Brothers					8		8				8	8			120	8			48	8		3	7	16	7	1
	Site Group																									
February 5, 2016	CDM Smith																									
	Arab Brothers																						0	0	0	0	0
	Site Group																									
February 6, 2016	CDM Smith	8	8	8		8	8							8		8			8							
	Arab Brothers					8		8				8	8			88	8			48	8		3	7	13	7	1
	Site Group																									
February 7, 2016	CDM Smith	8	8	8		8	8							8		8			8							
	Arab Brothers					8		8				8	8			120				48	8		3	7	16	7	1
	Site Group																									
February 8, 2016	CDM Smith	10	8	10		8	8							8					8							
	Arab Brothers					10		8				10	8			160	8			48	8		3.5	8	21	7	1
	Site Group																									

DATE	Name of Contractor /Subcontractor	Site Staff Job Days **																				Man-days*				
		Worker/Classification (Hours)																								
		Management				Engineers								Skilled labor			Unskilled labor			Other						
		Task Order Manager	Quality Control Manager	Safety & Envi. Manager	Project Manager #1, #2, etc ..	Electrical Engineer	Project Engineer	Office Engineer	Quality Control Engineer	Contract Specialist	Civil Engineer	Site Engineer	Survy Engineer	Mechanical Engineer	Foreman	Skilled Labor*	Equipment Operator	Flagman	Office Boy	Unskilled Labor	Driver		Total Management	Total Engineers	Total Skilled	Total Unskilled	Total Other
February 9, 2016	CDM Smith	10		8		8	9							10					8							
	Arab Brothers					10		8				10	8			160	4			48	8		2.25	8	20.5	7	1
	Site Group																									
February 10, 2016	CDM Smith	8	8	8		8	8							8					8							
	Arab Brothers					8		8				8	8			128	3			48	8		3	7	16.375	7	1
	Site Group																									
February 11, 2016	CDM Smith	8	12	8		8	8							12					8							
	Arab Brothers					8		8				8	8			128				48	8		3.5	8	16	7	1
	Site Group																									
February 12, 2016	CDM Smith		8											8												
	Arab Brothers															16							1	1	2	0	0
	Site Group																									
February 13, 2016	CDM Smith	12	11			8	8							12					8							
	Arab Brothers					11		8				10	8			120	8			48	8		2.875	8	16	7	1
	Site Group																									
February 14, 2016	CDM Smith	12	12	8		8	8							12					8							
	Arab Brothers					10		8				10	8			120				48	8		4	8	15	7	1
	Site Group																									
February 15, 2016	CDM Smith	12	12	8		8	8							12					8							
	Arab Brothers					10		8				10	8			120				48	8		4	8	15	7	1
	Site Group																									
February 16, 2016	CDM Smith	12	12	10		8	8							12					8							
	Arab Brothers					10		8				10	8			160	16			48	8		4.25	8	22	7	1
	Site Group																									
February 17, 2016	CDM Smith	12	11	9		8	12							12					8							
	Arab Brothers					8		8				8	8			80	8			48	8		4	8	11	7	1
	Site Group																									
February 18, 2016	CDM Smith	8	9	9		8	1							12					8							
	Arab Brothers					8		8				8	8			80	16			48	8		3.25	7	12	7	1
	Site Group																									
February 19, 2016	CDM Smith		12																							
	Arab Brothers											8				40	24			40	8		1.5	1	8	5	1
	Site Group																									
February 20, 2016	CDM Smith	12		12		8	9							10					8							
	Arab Brothers					8		8				8	8			120	56			40	8		3	7	22	6	1
	Site Group																									
February 21, 2016	CDM Smith	12	12	3		8	9							9					8							
	Arab Brothers					8		8				8	8			80	16			40	8		3.375	7	12	6	1
	Site Group																									
February 22, 2016	CDM Smith	11	11	12		8	8							11					8							
	Arab Brothers					8		8				8	8								8		4.25	7	0	1	1
	Site Group																									

DATE	Name of Contractor /Subcontractor	Site Staff Job Days **																				Man-days*				
		Worker/Classification (Hours)																								
		Management				Engineers								Skilled labor			Unskilled labor			Other						
		Task Order Manager	Quality Control Manager	Safety & Envi. Manager	Project Manager #1, #2, etc ..	Electrical Engineer	Project Engineer	Office Engineer	Quality Control Engineer	Contract Specialist	Civil Engineer	Site Engineer	Survy Engineer	Mechanical Engineer	Foreman	Skilled Labor*	Equipment Operator	Flagman	Office Boy	Unskilled Labor	Driver		Total Management	Total Engineers	Total Skilled	Total Unskilled	Total Other
February 23, 2016	CDM Smith	12	12			8	9							12					8				3	8	0	1	1
	Arab Brothers					8		8				8	8								8						
	Site Group																										
February 24, 2016	CDM Smith	11				8	12							10					8				1.375	8	6	6	1
	Arab Brothers					8		8				8	8			40	8			40	8						
	Site Group																										
February 25, 2016	CDM Smith	8	8	8		8								8					8				3	6	12	6	1
	Arab Brothers					8		8				8	8			80	16			40	8						
	Site Group																										
February 26, 2016	CDM Smith																						0	0	0	0	0
	Arab Brothers																										
	Site Group																										
February 27, 2016	CDM Smith	11	9	10		8	9							9					8				3.75	7	12	6	1
	Arab Brothers					8		8				8	8			80	16			40	8						
	Site Group																										
February 28, 2016	CDM Smith	14	13	9		8	8							9					8				4.5	7	17	6	1
	Arab Brothers					8		8				8	8			120	16			40	8						
	Site Group																										
February 29, 2016	CDM Smith	12	10	9		8	9							10					8				1.8235294	7	17	6	1
	Arab Brothers					8		8				8	8			120	16			40	8						
	Site Group																										
Total of Month		**255.00**	**238.00**	**189.00**	**0.00**	**390.00**	**200.00**	**200.00**	**0.00**	**0.00**	**0.00**	**220.00**	**201.00**	**254.00**	**0.00**	**2560.00**	**297.00**	**0.00**	**200.00**	**1088.00**	**208.00**	**0.00**	**83.20**	**183.13**	**357.13**	**161.00**	**26.00**

* Total Man-days = Total Hours / 8

** This data collection sheet is for Palestinian staff only , experts and foreign employee shall not be included.

Electrical Engineer:(Telecomm Department Director,TS&CC Director, Solution Engineer, Senior Software Engineer)
Skilled Labor: Senior Project Technician
Skilled Labor : Certified welding Inspector, Welder's assistant.
Skilled Labor :Tool pusher,Driller,Dereck man

Task Order 00006 - Qabatiya Well, Pump Station and Conveyance

Appendix

Inspection Request Log

USAID Contract No.: AID-294-I-00-12-00001				
TASK ORDER NO. : AID-294-TO-13-00006				
Qabatiya Well Pump Station And Conveyance System				
Inspection Request				
IR No.	**Description**	submitted Date to CMC	Inspection Date	Degree
IR-1300006-QBW-261B	inspection of 1",2" and ½" U-PVC pipes, elbows and caps to be used for electrical works. Detailed material description is shown in the attached MRR 005	11/02/2016	14/02/2016	A
IR-1300006-QBW-294B	Inspection for the installation of coping stone for the parapet tops of the living quarter	11/02/2016	11/02/2016	A
IR-1300006-QBW-440B	Inspection of Delivered Ventilation Fans and Associated Equipment as Shown in the Attached MRR-036.	11/02/2016		
IR-1300006-QBW-449B	Inspection for the levels of modified subgrades beneath the footings of transformer (TR 1& TR2)as shown in the attached drawings	11/02/2016	11/02/2016	A
IR-1300006-QBW-526B	Inspection for Analyser Measuring System as per the attached delivery note MRR-059	11/02/2016	14/02/2016	A
IR-1300006-QBW-568B	Inspection of surface preparation top par of retaining walls prior to start installation of fence	21/02/2016	22/02/2016	C
IR-1300006-QBW-570B	Inspection for delivered steel well discharge elbow for Qabatiya well as shown in the attached MRR-075	11/02/2016	11/02/2016	A
IR-1300006-QBW-571B	Inspection of surface preparation for floor of balance tank prior to applying first epoxy coat	11/02/2016	11/02/2016	A
IR-1300006-QBW-573B	Inspection of compacted basecoarse layer around AAUJ,Azzababdeh and other chambers on the conveyance system prior to asphalting works	11/02/2016	11/02/2016	A
IR-1300006-QBW-575B	Inspection for delivered electrical panels with breakers as shown in the attached MRR-076	11/02/2016	14/02/2016	C
IR-1300006-QBW-582B	Inspection of installation AC units in the electrical control building	07/02/2016	08/02/2016	C
IR-1300006-QBW-582C	Inspection of installation AC units in the electrical control building	10/02/2016	10/02/2016	A
IR-1300006-QBW-591A	Inspection for testing and pre-commissioning for BH surface equipment (harmonic filters 1&2,VFD's1&2 and step-up transformer)	29/02/2016	01/03/2016	A
IR-1300006-QBW-595B	Inspection of installation of wooden door and kitchen cabinet on the living quartet	04/02/2016	04/02/2016	A
IR-1300006-QBW-600B	Inspection for the delivered batteries, battery charger, cabinets and electrical safety kit as shown in the attached MRR-085	14/02/2016	14/02/2016	A
IR-1300006-QBW-601B	Inspection for piping and valves installation at booster station area.	07/02/2016	08/02/2016	A
IR-1300006-QBW-602B	Inspection for piping and valves installation at well discharge and balance tank inlet, overflow and equalization.	07/02/2016	08/02/2016	A
IR-1300006-QBW-605A	Inspection for the installation of lighting poles,pole-02,pole-03 and pole-04 as shown in the attached drawing	11/02/2016	14/02/2016	A
IR-1300006-QBW-611A	Inspection for installation for the MCC as per the attached certification of proper installation	01/02/2016	01/02/2016	A
IR-1300006-QBW-612A	Inspection for installation for the padmount step down transformer	01/02/2016	01/02/2016	A
IR-1300006-QBW-613A	Inspection of applying and compacting base coarse layer under side walk prior casting concrete	01/02/2016	01/02/2016	C
IR-1300006-QBW-613B	Inspection of applying and compacting base coarse layer under side walk prior casting concrete	02/02/2016	03/02/2016	A
IR-1300006-QBW-614A	Inspection for installation control system hardware(PLC)as per the attached	02/02/2016	03/02/2016	A
IR-1300006-QBW-615A	Inspection for the delivered portable air compressor as shown in the attached MRR-086	02/02/2016	03/02/2016	A
IR-1300006-QBW-616A	Inspection for installation of BHI well pump and all associated surface equipment (harmonic filters 1&2 VFDs1&2,step up transformer)	02/02/2016	02/02/2016	A
IR-1300006-QBW-617A	Inspection of electrical and mechanical works in side walk prior casting concrete	04/02/2016	04/02/2016	A

IR-1300006-QBW-618A	Inspection of formwork and reinforcement of side walk prior casting concrete	04/02/2016	04/02/2016	A
IR-1300006-QBW-619A	Inspection for the installation of Siemens medium voltage switchgear as per the attached certificate of proper installation	04/02/2016	04/02/2016	A
IR-1300006-QBW-620A	Inspection for water tightness test for the roof insulation of well site building (LQ,EM,EC and chlorination building)	07/02/2016	07/02/2016	A
IR-1300006-QBW-621A	Inspection for the delivered pressure transmitters, ultrasonic transmitters, paddle flow switches and level transducer as shown in the attached MRR-87	07/02/2016	08/02/2016	A
IR-1300006-QBW-622A	Inspection of installation AC units in the living quarter building	07/02/2016	08/02/2016	A
IR-1300006-QBW-623A	Inspection for the delivered interlocking block tiles as shown in the attached MRR-088	07/02/2016	08/02/2016	A
IR-1300006-QBW-624A	Inspection of installation of all piping, fittings, valves, flow meter, pipe supports at Qabatiya and AL Zababde Metering Pad	08/02/2016	10/02/2016	C
IR-1300006-QBW-624B	Inspection of installation of all piping, fittings, valves, flow meter, pipe supports at Qabatiya and AL Zababde Metering Pad	29/02/2016	01/03/2016	C
IR-1300006-QBW-625A	Inspection for the delivered outdoor emergency eyewash as shown in the attached MRR-089	08/02/2016	08/02/2016	A
IR-1300006-QBW-626A	Inspection of installation of coping stone for the parapet tops od disinfection and electrical buildings	08/02/2016	09/02/2016	A
IR-1300006-QBW-627A	Inspection of roof insulation works for living quarter and disinfection buildings	08/02/2016	09/02/2016	A
IR-1300006-QBW-628A	Inspection of installation floor tiles for chlorination building	08/02/2016	09/02/2016	A
IR-1300006-QBW-629A	Inspection of installation chlorination system in chlorination building	09/02/2016	10/02/2016	A
IR-1300006-QBW-630A	Inspection of formwork and reinforcement of sliding gate beam	10/02/2016	10/02/2016	A
IR-1300006-QBW-631A	Inspection of installation of interlock tile in the site.	11/02/2016	11/02/2016	C
IR-1300006-QBW-631B	Inspection of installation of interlock tile in the site.	25/02/2016	25/02/2016	A
IR-1300006-QBW-632A	Inspection for the delivered stainless steel ladders for buildings of Qabatiya Pump Station as shown in the attached MRR-090.	14/02/2016	14/02/2016	A
IR-1300006-QBW-633A	Inspection for the delivered galvanized steel sections for boosters' shed as shown in the attached MRR-091.	14/02/2016	14/02/2016	A
IR-1300006-QBW-634A	Inspection for the monthly Environmental checklist for December 2015	14/02/2016	15/02/2016	A
IR-1300006-QBW-635A	Inspection for the monthly Environmental checklist for January 2016	14/02/2016	15/02/2016	A
IR-1300006-QBW-636A	Inspection of installation of fence and chain link around transformer pads	15/02/2016	16/02/2016	A
IR-1300006-QBW-637A	Inspection of installation of electrical manholes as per the attached drawing	16/02/2016	16/02/2016	A
IR-1300006-QBW-638A	Inspection of installation of lighting pole as per the attached drawing	16/02/2016	16/02/2016	A
IR-1300006-QBW-639A	Inspection of installation of security screen for the windows of living quarter as per the attached drawing	17/02/2016	17/02/2016	A
IR-1300006-QBW-640A	Inspection of milling areas along the conveyance system and preparation works prior to asphalting as per the attached drawing	18/02/2016	21/02/2016	A
IR-1300006-QBW-641A	Inspection of safety signs and precautionary traffic arrangements along the conveyance system prior to start the asphalting areas	18/02/2016	21/02/2016	A
IR-1300006-QBW-642A	Inspection of installation of fence at top of retaining wall, as per attached drawing	21/02/2016	22/02/2016	C
IR-1300006-QBW-643A	Inspection for the delivery and installation of checkered plates at booster station area, according to attached drawing and MRR-092.	21/02/2016	22/02/2016	C
IR-1300006-QBW-644A	Inspection of installation external ladders for buildings (electrical buildings, chlorination and living quarter)	21/02/2016	22/02/2016	C
IR-1300006-QBW-645A	Inspection galvanized steel door of electrical metering and electrical control buildings	21/02/2016	22/02/2016	A
IR-1300006-QBW-646A	Inspection of installation of plumping equipment's and piping for living quarter	21/02/2016	23/02/2016	C
IR-1300006-QBW-647A	Inspection of finish site grading and preparation at Qabatiya well pump site	23/02/2016	23/02/2016	A

IR-1300006-QBW-648A	Inspection of finish site demolition, removal, clear and grub site	23/02/2016	24/02/2016	A
IR-1300006-QBW-649A	Inspection for the installation of portable air compressor near the bladder surge tank.	24/02/2016	retracted 25/2/ 2016	
IR-1300006-QBW-649A	Inspection for the installation of portable air compressor near the bladder surge tank.	29/02/2016	01/03/2016	A
IR-1300006-QBW-650A	Inspection for civil site miscellaneous level excavations	24/02/2016	24/02/2016	A
IR-1300006-QBW-651A	Inspection of base course levels at the well yard prior to asphalting works (as per the attached drawing)	25/02/2016	28/02/2016	A
IR-1300006-QBW-652A	Inspection for the installation and termination of transmission booster pumps power cables and control wires as per the attac	28/02/2016	01/03/2016	A
IR-1300006-QBW-653A	Inspection for the installation and termination of miscellaneous power and control wires as per the attached drawing	28/02/2016	01/03/2016	A
IR-1300006-QBW-654A	Inspection for installation of surge tank as per the attached certificate of proper installation	29/02/2016	01/03/2016	C
IR-1300006-QBW-655A	Inspection of installation of air release valve as per the attached drawing	29/02/2016	01/03/2016	A
IR-1300006-QBW-656A	Inspection of installation of flanged gate valves at St.1+158.594 & St.2+656.945 (as per the attached drawing)	29/02/2016	01/03/2016	A
IR-1300006-QBW-657A	Inspection of installation of washout chambers(as per the attached drawings)	29/02/2016	01/03/2016	A
IR-1300006-QBW-658A	Inspection of installation valves,fitings,pipes water meter and others for connection chambers of AL Zababdi and AUJ (as pe	29/02/2016	01/03/2016	C
IR-1300006-QBW-659A	Inspection of the upgrading the existing Aqaba and Raba Chambers(as per the attached drawings)	29/02/2016	01/03/2016	C
IR-1300006-QBW-660A	Inspection of finish FC Deckguard coat for exterior walls of balance tank	29/02/2016	01/03/2016	C

Task Order 00006 - Qabatiya Well, Pump Station and Conveyance

Appendix

Equipment List

USAID Contract No.: AID-294-I-00-12-00001			
Task Order No.: AID-294-TO-13-00006			
Qabatiaya Well Pump Station And Conveyqance System			
Equipment List-February 2016			
Backhoe/Idle	01/02/2016	JCB	2011
Bobcat	01/02/2016	CAT	2013
Roller	01/02/2016	BOMAG	1997
Welding machinen	01/02/2016		
Backhoe/Idle	02/02/2016	JCB	2011
Bobcat	02/02/2016	CAT	2013
Roller	02/02/2016	BOMAG	1997
Welding machinen/Idle	02/02/2016		
Backhoe/Idle	03/02/2016	JCB	2011
Bobcat	03/02/2016	CAT	2013
Roller	03/02/2016	BOMAG	1997
Welding machinen/Idle	03/02/2016		
Backhoe/Idle	04/02/2016	JCB	2011
Bobcat	04/02/2016	CAT	2013
Roller/Idle	04/02/2016	BOMAG	1997
Concrete vibrator	04/02/2016		
Backhoe/Idle	05/02/2016	JCB	2011
Bobcat	05/02/2016	CAT	2013
Roller	05/02/2016	BOMAG	1997
Backhoe/Idle	06/02/2016	JCB	2011
Bobcat	06/02/2016	CAT	2013
Roller/Idle	06/02/2016	BOMAG	1997
Welding machinen	06/02/2016		
Backhoe/Idle	07/02/2016	JCB	2011
Bobcat/Idle	07/02/2016	CAT	2013
Roller/Idle	07/02/2016	BOMAG	1997
Welding machinen/Idle	07/02/2016		
Backhoe/Idle	08/02/2016	JCB	2011
Bobcat/Idle	08/02/2016	CAT	2013
Roller	08/02/2016	BOMAG	
Backhoe/Idle	09/02/2016	JCB	2011
Bobcat/Idle	09/02/2016	CAT	2013
Roller	09/02/2016	BOMAG	1997
Backhoe/Idle	10/02/2016	JCB	2011
Bobcat/Idle	10/02/2016	CAT	2013
Roller	10/02/2016	BOMAG	1997
Backhoe/Idle	11/02/2016	JCB	2011
Bobcat/Idle	11/02/2016	CAT	2013
Roller/Idle	11/02/2016	BOMAG	1997
Backhoe/Idle	12/02/2016	JCB	2011
Bobcat/Idle	12/02/2016	CAT	2013
Roller/Idle	12/02/2016	BOMAG	1997
Backhoe	13/02/2016	JCB	2011
Bobcat/Idle	13/02/2016	CAT	2013
Roller/Idle	13/02/2016	BOMAG	1997
Backhoe/Idle	14/02/2016	JCB	2011
Bobcat/Idle	14/02/2016	CAT	2013
Roller/Idle	14/02/2016	BOMAG	1997
Backhoe/Idle	15/02/2016	JCB	2011
Bobcat/Idle	15/02/2016	CAT	2013
Roller/Idle	15/02/2016	BOMAG	1997

Backhoe/Idle	16/02/2016	JCB	2011
Bobcat/Idle	16/02/2016	CAT	2013
Roller/Idle	16/02/2016	BOMAG	1997
Milling machine	16/02/2016	Wirtgen	2013
Backhoe/Idle	17/02/2016	JCB	2011
Bobcat/Idle	17/02/2016	CAT	2013
Roller/Idle	17/02/2016	BOMAG	1997
Milling machine	17/02/2016	Wirtgen	2013
Backhoe	18/02/2016	JCB	2011
Bobcat/Idle	18/02/2016	CAT	2013
Roller/Idle	18/02/2016	BOMAG	1997
Milling machine	18/02/2016	Wirtgen	2013
Backhoe/Idle	19/02/2016	JCB	2011
Bobcat/Idle	19/02/2016	CAT	2013
Roller/Idle	19/02/2016	BOMAG	1997
Milling machine	19/02/2016	Wirtgen	2013
Backhoe/Idle	20/02/2016	JCB	2011
Bobcat/Idle	20/02/2016	CAT	2013
Roller/Idle	20/02/2016	BOMAG	1997
Asphalt finisher	20/02/2016	BITELLI	2000
Milling machine	20/02/2016	Wirtgen	2013
Backhoe/Idle	21/02/2016	JCB	2011
Bobcat/Idle	21/02/2016	CAT	2013
Roller/Idle	21/02/2016	BOMAG	1997
Asphalt finisher/Idle	21/02/2016	BITELLI	2000
Backhoe/Idle	22/02/2016	JCB	2011
Bobcat/Idle	22/02/2016	CAT	2013
Roller/Idle	22/02/2016	BOMAG	1997
Asphalt finisher/Idle	22/02/2016	BITELLI	2000
Backhoe/Idle	23/02/2016	JCB	2011
Bobcat/Idle	23/02/2016	CAT	2013
Roller/Idle	23/02/2016	BOMAG	1997
Asphalt finisher/Idle	23/02/2016	BITELLI	2000
Backhoe/Idle	24/02/2016	JCB	2011
Bobcat/Idle	24/02/2016	CAT	2013
Roller	24/02/2016	BOMAG	1997
Backhoe	25/02/2016	JCB	2011
Bobcat/Idle	25/02/2016	CAT	2013
Roller	25/02/2016	BOMAG	1997
Backhoe/Idle	26/02/2016	JCB	2011
Bobcat/Idle	26/02/2016	CAT	2013
Roller/Idle	26/02/2016	BOMAG	1997
Backhoe/Idle	27/02/2016	JCB	2011
Bobcat	27/02/2016	CAT	2013
Roller	27/02/2016	BOMAG	1997
Asphalt finisher	27/02/2016	BITELLI	2000
Backhoe/Idle	28/02/2016	JCB	2011
Bobcat	28/02/2016	CAT	2013
Roller	28/02/2016	BOMAG	1997
Mobile crane	29/02/2016	IVECO	2009
Backhoe	29/02/2016	JCB	2011
Bobcat	29/02/2016	CAT	2013
Roller	29/02/2016	BOMAG	1997
Asphalt finisher	29/02/2016	BITELLI	2000
Roller	29/02/2016	HAMM	2002

Task Order 00006 - Qabatiya Well, Pump Station and Conveyance

Appendix

Environmental Checklist

USAID WEST BANK/ GAZA
INFRASTRUCTURE NEEDS PROGRAM INPII
CONTRACT NO. AID-294-I-00-12-0001
TASK ORDER NO. AID-294-TO-13-00006
QABATIYA WELL PUMP STATION AND CONVEYANCE SYSTEM (QBW)

Attendees: Murad Daoud / Mohammed Thweib

Site(s)Visited: QBW

Name of Inspector: Murad Daoud **Date of Inspection:** February 10, 2016

N o.		Yes/No/ NA	Remarks by CMC	Date	Action by Contractor	Date	Resolved by Contractor	Date
1	**General**							
1.A	Health, Safety, and Environmental Plan and first aid kit is onsite	Yes						
1.B	Temporary Utilities: toilet facilities; covered water kegs; shade are provided	Yes	Hygenic conditions at toilet facility needs improvement		Concurred. Corrective action has been taken	10-Feb-16		
1.C	Air Quality Control: Dust and sand emissions are minimized	Yes						
1.D	Noise and Vibration Control: control measures are implemented	Yes						
1.E	Waste Management: Good housekeeping; sub-contractors are aware of waste procedure for hazardous and non-hazardous waste (appropriate disposal sites and proper management and reporting of accidental spills or discharges of hazardous waste)	No	Enhance houskeeping practices onsite. Remove all emtpy cans and material containers and dispose safely	February 10, 2016	Concurred. Corrective action has been taken	10-Feb-16		
1.F	Fire Protection and Prevention: Inspect fire station and flammable storage; signs should be posted for designated smoking and no smoking areas	Yes						
1.G	Personal Protection Equipment (PPE): Workers have proper PPE for task	Yes	Enforce that all workers onsite are utilizing proper PPEs		Concurred	10-Feb-16		
1.H	Safety Procedures are in place for all that are applicable: Scaffolding, towers, and platforms; excavation; existing underground and above ground facilities; portable electromechanical tools; vehicles and transportation equipment; ladder use; confined space entry; and lockout/tag out	Yes						
2	**Construction Noise, Heavy Machinery and Equipment**							
2.A	Minimize use of heavy equipment and machinery whenever possible.	Yes						
2.B	Traffic Control: Barricades, traffic cones, warning signs, lights, flagmen, and other safety devices and staff as applicable in accordance to local authority requirements	No	Waring signs and barricades have to be provided around the entrance of the project site		Concurred.	10-Feb-16		
2.C	Provide well-maintained construction equipment, vehicles and machinery to minimize pollutant emissions.	Yes						
2.D	Install and maintain mufflers on all machinery. Limit and control machinery movement within and around work site.	Yes						
2.E	Limit the operation of noisy, heavy equipment between the hours of 6:00 pm to 6:00 am and during Friday and other official holidays.	NA						
2.F	Prevent oil and fuel leaks by eliminating the cause and sources of leaks and by continuous check.	Yes						
2.G	Abide by local laws and ordinances concerning speed, weights of vehicles that transport construction materials to and from construction, storage and quarry sites in order to maximize safety and minimize environmental hazards such as traffic accidents, pavements damage or excess dust generation.	Yes						
2.H	Intermittent noisy activities should be scheduled to minimize exposure of neighboring areas to high levels of construction noise. For example, noisy activities could be scheduled at times coinciding with periods when the schools are likely to be unoccupied. Prolonged operation of noisy equipment close to the schools should be avoided.	Yes						
2.I	Idle equipment should be turned off or throttled down. Noisy equipment should be properly maintained and used no more often than is necessary.	Yes						
2.J	Construction activities should be planned so that parallel operation of several sets of equipment close to a given receiver is avoided.	Yes						
2.K	Where possible, the numbers of concurrently operating items of plant should be reduced through sensitive programming.	Yes						
2.L	Construction plant should be properly maintained and operated. Construction equipment often has silencing measures built in or added on, e.g. compressor panels, and mufflers. Silencing measures should be properly maintained and utilized.	Yes						
2.M	Provide workers with Protective hearing devices and breathing masks.	Yes						
3	**Traffic Management**							
3.A	Prepare a traffic plan to be approved by the CMC for management of traffic during construction. Particular attention to heavily traveled sections of the road which include pedestrian traffic.	Yes						
3.B	Manage and control construction activities to minimize traffic disruption and possible delays in the construction zone area.	Yes						
3.C	Plan and provide temporary alternative lanes and routes to allow passage of traffic with minimum delay, disruption and maximum safety.	NA						

N o.		Yes/No/ NA	Remarks by CMC	Date	Action by Contractor	Date	Resolved by Contractor	Date
3.D	Utilize flagmen and other appropriate means to direct traffic safely and minimize conflicts between public and construction traffic.	No	Contractor shall provide flgman where ever needed	February 10, 2016	Concurred.Flagmen are provided at site's entrance during entrance of heavy vehicles	10-Feb-16		
3.E	Coordinate with all concerned parties, such as DCL, local authorities, municipalities, local councils, and local police department for all planed construction activities.	Yes						
3.F	Coordinate with local authorities emergency routes to allow medical and public safety services to be delivered to the work site and through it to the public at large.	Yes						
3.G	Provide all area map showing closest medical, emergency, police and fire services.	Yes						
4	**Health and Safety**	Yes						
4.A	Prepare a Safety Plan and submit to the CMC for approval.	Yes						
4.B	Implement safety measures to protect workers, public (vehicular and pedestrian) from possible injury and adjacent property from damage.	Yes						
4.C	Implement safety measures during the road construction by providing temporary bridges, safe pathways and hand rails and other safety measures during the road construction.	No	Safety measures regarding road construction need to be improved	February 10, 2016	Concurred. Corrective action has been taken	10-Feb-16		
4.D	Provide measures to define and isolate construction zones by using warning signs, fencing and ribbon barriers	No	Contractor shall isolate as possible the construction areas. Maintain the warning signs and fences around the project site. Maintain safe access for the project site	February 10, 2016	Concurred. Corrective action has been taken	10-Feb-16		
4.E	Provide appropriate measures to prevent unauthorized persons from entering the work area. Provide all workers with hard hats, hearing protection, bright colored vests, goggles, and other personal protective equipment (PPE) as needed and required.	NA						
4.F	Provide map(s) to nearest medical and public safety facilities including telephone numbers in case of illness or a construction accident.	Yes						
4.G	Fixed or Portable Toilets shall be provided wherever needed for the use of employees.	Yes	Improve the hygenic conditions of the toilets onsite		Concurred. Corrective action has been taken	10-Feb-16		
4.H	The contractor shall provide temporary shoring as appropriate and needed.	Yes						
5	**Dust Control**	NA						
5.A	Utilize dust palliative such as calcium chloride and/or wetting by water application to minimize and control dust migration from construction site, quarries and storage areas.	Yes						
5.B	Spray water using water tanks whenever needed to assure minimization of dust migration	Yes						
5.C	The working area for the uprooting of trees, shrubs or vegetation or for the removal of boulders, poles, pillars or temporary or permanent structures shall be sprayed with water or a dust suppression chemical immediately.	Yes						
5.D	All demolished items (including trees, shrubs, vegetation, boulders, poles, pillars, structures debris, rubbish and other items arising from site clearance) that may dislodge dust particles shall be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides within a day of demolition.	Yes						
5.E	Immediately before leaving a construction site, every vehicle shall be washed to remove any dusty materials from its body and wheels.	Yes						
5.F	Where a vehicle leaving a construction site is carrying a load of dusty materials, the load shall be covered entirely by clean impervious sheeting to ensure that the dusty materials do not leak from the vehicle. At least 50cm of freeboard vertical distance will be maintained between the top of the load and the top of the trailer sides on Truck hauling dirt, soil or loose materials off the site.	NA						
5.G	Vehicle speed within the worksite shall be limited to 10 kph, except for properly formed and maintained access roads.	Yes						
5.H	The concrete batching plant shall be located away from any air sensitive receiver as far as practicable.	Yes						
5.I	Cement delivered in bulk shall be stored properly and covered to eliminate dust migration.	NA						
5.J	The working area of any excavation or earth moving operation shall be sprayed with water or a dust suppression chemical immediately before, during and immediately after the operation so as to maintain the entire surface wet.	NA						
5.K	Exposed earth shall be properly treated by compaction, turning, hydro seeding, vegetation planting or sealing with latex, vinyl, bitumen, shotcrete or other suitable surface stabilizer within 6 months after the last construction activity on the construction site or part of the construction site where the exposed earth lies.	NA						
6	**Land Use**	NA						
6.A	All work will occur in designated Right-Of-Way (ROW) of the road. No encroachment on private land.	No	Remove piled material on nearby lands		concurred. These materials have been moved to approved damping areas.	10-Feb-16		
6.B	Maximum effort will be provided to protect existing trees along the ROW of the construction zone especially Mature olive trees.	No	Protect nearby olive trees		Concurred.	10-Feb-16		

N o.		Yes/No/ NA	Remarks by CMC	Date	Action by Contractor	Date	Resolved by Contractor	Date
6.C	All trees will be sprayed with water periodically to clean them and prevent harm that may be caused by the dust due to construction operations. Maximum efforts will be also provided to avoid uprooting trees.	Yes						
6.D	In the event a tree is planted illegally in the ROW of the road, the tree will be removed and replanted elsewhere in coordination with the CMC and local village councils.	NA						
7	**Historical Sites**							
7.A	Maximum effort and action will be taken to protect known historical sites. Protection measures will be coordinated with the Ministry of Tourism and Antiquities.	Yes						
7.B	Upon discovery of an historical/cultural site, construction operations will be halted immediately. The Ministry of Tourism and Antiquities will be contacted to evaluate the discovery.	NA						
7.C	Resume construction operation upon determination by the Ministry of Tourism and Antiquities of the discovered site. Proceed upon approval of CMC and the Palestinian authorities.	NA						
8	**Biodiversity Conservation**							
8.A	Protection of adjacent fertile agricultural land and wild life will be maintained by limiting the construction operations to the designated road ROW.	No	Protect exiting nearby agricultural lands		Concurred.	10-Feb-16		
8.B	Minimize the noise and dust levels to preserve wild life existent along the road areas.	NA						
9	**Material Extraction**							
9.A	Utilize materials that meet the project specification from local cuts that produce durable aggregate for both stabilization and erosion control.	Yes						
9.B	Keep photographic record of existing conditions to restore site(s) to original characteristics and conditions.	Yes						
9.C	Develop a Construction Risk Management Program (CRMP) including video recording of road and adjacent areas and restore affected areas to original conditions.	Yes						
9.D	Stockpile and sort excavated materials and reuse for restoration and reshaping of areas along the ROW.	NA						
10	**Filling**							
10.A	In areas where extensive excavation and filling are carried out, temporary earth bunds should be built. Sand bags may be used to confine the runoff or wastewater generated from the construction activities	NA						
10.B	Excavation works should be minimized in rainy season.	NA						
10.C	Open stockpiles of construction materials and dusty materials should be covered with tarpaulin during rainstorms. These materials should not be placed near the stream courses. This avoids the release of materials into the stream water.	Yes						
10.D	The process of trench and hole digging should be in short sections. Trenches and holes should be immediately back-filled after the completion of a section of works to minimize the inflow of rainwater during rainstorms.	NA						
10.E	The channel system (if necessary) to collect the runoffs in the construction sites should be well designed prior to the commencement of the site formation works.	NA						
10.F	Provisions of drains at the lowest points of the sites could effectively collect the runoff. Site and sand traps, which remove large soil particles in the runoffs, should be provided in the channels. Regular maintenance and cleaning of the channels would ensure that the channel system is in good condition and is not obstructed by sediments.	NA						
10.G	Wastewater generated from the vehicle wheel washing facilities should be recycled wherever practicable.	NA						
11	**Utility Services**							
11.A	Noisy/disruptive operations to be stationed away from surrounding public/private structures	Yes						
11.B	Soil erosion and other measures as necessary to be implemented to protect adjacent land(s) from effects of construction.	No	Prohibit throwing waste material at nearby lands that may cause soil polution		Concurred.	10-Feb-16		
11.C	Coordinate possible disruption to existing utilities with local authorities. Relocate utilities if necessary prior to starting of construction to minimize disruption.	NA						
11.D	Public underground infrastructure such as sewer, manholes etc. will be located in the immediate vicinity of the site burlap to protect from possible construction effects.	NA						
11.E	Direct heavy construction traffic away from possible shallow sewer, water & other possible underground lines.	Yes						
11.F	When using cranes, a clear path to be determined by the project manager to avoid possible damage to overhead lines.	Yes						
11.G	Stumps, Spoils, Debris and Other Materials Clean up the stump resulting from road construction. Contractor to keep construction area at site and surrounding areas in a neat clean condition and free from any accumulation of Rubbish.	NA						

N o.		Yes/No/ NA	Remarks by CMC	Date	Action by Contractor	Date	Resolved by Contractor	Date
11.H	If a material is to be disposed of on-site, such material will be covered with fill and topsoil.	NA						
11.I	Provide approved designated protected areas for storage of spoil material, such as asphalt and concrete. Measures to be taken for the removal of waste materials to the approved disposal sites. Waste materials not to be burned. Disposal of excavated materials, particularly existing Asphalt shall be environmentally friendly.	No	Enhance the waste handling within and around the project site. Wastes were observed within and around the project site		Concurred. Waste is disposed in large containers and transferred to damping areas.	10-Feb-16		
12	**Site-Specific Concerns:**							
12.a	Contractor shall close the Enviromental issues mentioned above before the end of the month, delaying issues from one month to the next month will increase the enviromental effects on the construction site.							
12.b	Maintain the implementation of safety and traffic plans	No						
12.c	Improve the waste management practices	No						
12.d								

CMC representative:

Murad Daoud

Contractor representative:

Distribution 1. Contractor 2. CMC

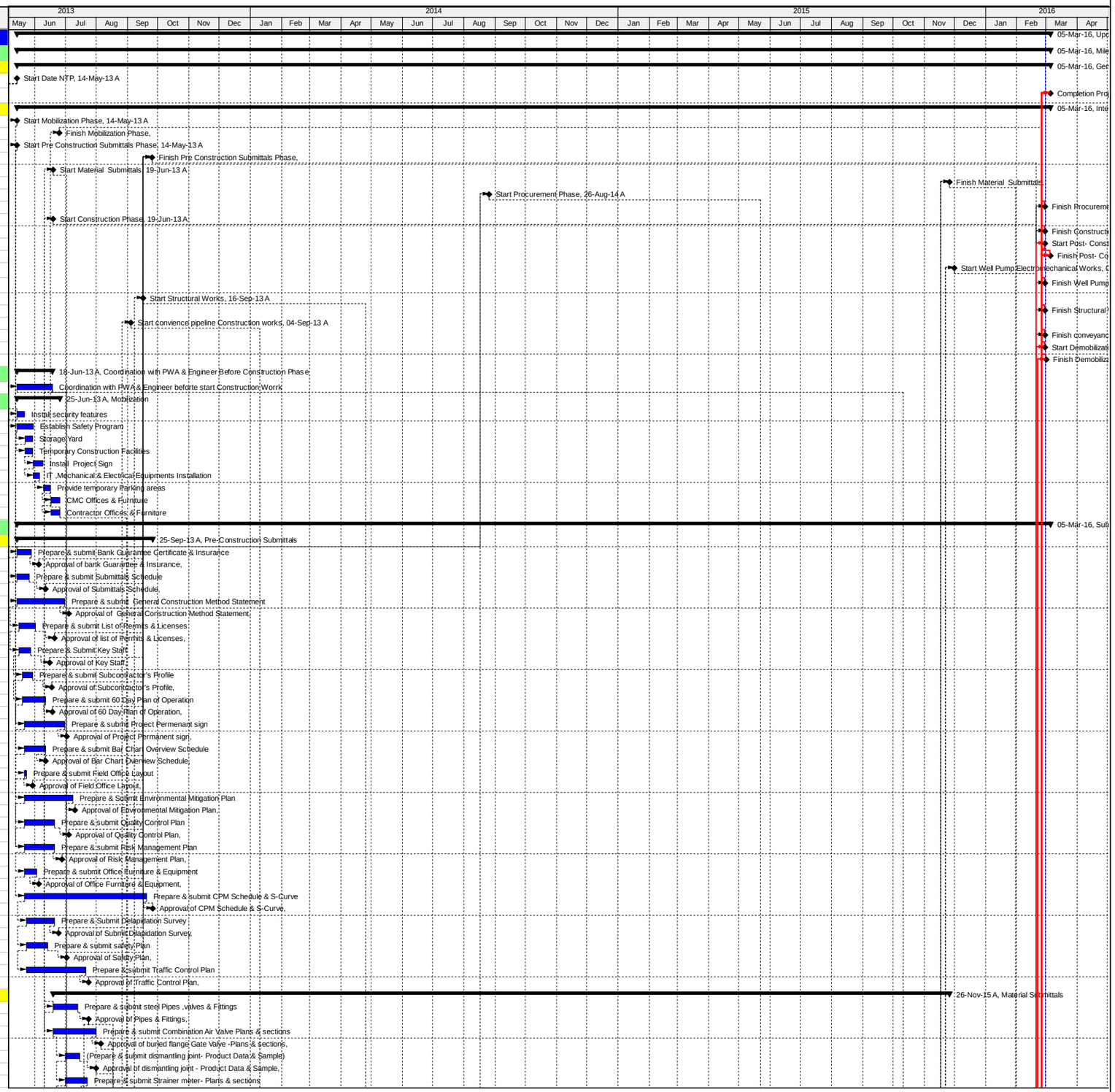
Task Order 00006 - Qabatiya Well, Pump Station and Conveyance

Appendix

Updated Schedule

Updated Schedule Up to 29.2.2016

Activity ID	Activity Name	Original Duration	Start	Finish
Updated Schedule Up to 29.2.2016		1031	14-May-13 A	05-Mar-16
Milestones		1027	14-May-13 A	05-Mar-16
General Milestones		1027	14-May-13 A	05-Mar-16
MS00110	Start Date NTP	0	14-May-13 A	
MS00120	Completion Project	0		05-Mar-16*
Intermediate Milestones		1027	14-May-13 A	05-Mar-16
IMS00030	Start Mobilization Phase	0	14-May-13 A	
IMS00040	Finish Mobilization Phase	0		25-Jun-13 A
IMS00050	Start Pre Construction Submittals Phase	0	14-May-13 A	
IMS00051	Finish Pre Construction Submittals Phase	0		25-Sep-13 A
IMS00052	Start Material Submittals	0	19-Jun-13 A	
IMS00053	Finish Material Submittals	0		26-Nov-15 A
IMS00055	Start Procurement Phase	0	26-Aug-14 A	
IMS00056	Finish Procurement Phase	0		29-Feb-16
IMS00060	Start Construction Phase	0	19-Jun-13 A	
IMS00062	Finish Construction Phase	0		29-Feb-16
IMS00063	Start Post- Construction Submittals	0	29-Feb-16	
IMS00064	Finish Post- Construction Submittals	0		05-Mar-16
IMS00075	Start Well Pump Electromechanical Works	0	01-Dec-15 A	
IMS00080	Finish Well Pump Electromechanical Works	0		29-Feb-16
IMS00085	Start Structural Works	0	16-Sep-13 A	
IMS00100	Finish Structural Works	0		29-Feb-16
IMS00140	Start convience pipeline Construction works	0	04-Sep-13 A	
IMS00150	Finish conveyance pipeline works	0		29-Feb-16
IMS00160	Start Demobilization Phase	0	29-Feb-16	
IMS00170	Finish Demobilization Phase	0		01-Mar-16
Coordination with PWA & Engineer Before Construction Phase		30	14-May-13 A	18-Jun-13 A
A7720	Coordination with PWA & Engineer beforte start Construction Worrk	30	14-May-13 A	18-Jun-13 A
Mobilization		36	14-May-13 A	25-Jun-13 A
MOBL100	Install security features	7	14-May-13 A	21-May-13 A
MOBL110	Establish Safety Program	15	14-May-13 A	30-May-13 A
MOBL120	Storage Yard	7	22-May-13 A	29-May-13 A
MOBL130	Temporary Construction Facilities	7	22-May-13 A	29-May-13 A
MOBL140	Install Project Sign	7	30-May-13 A	08-Jun-13 A
MOBL150	IT ,Mechanical & Electrical Equipments Installation	6	30-May-13 A	05-Jun-13 A
MOBL160	Provide temporary Parking areas	7	09-Jun-13 A	16-Jun-13 A
MOBL180	CMC Offices & Furniture	8	17-Jun-13 A	25-Jun-13 A
MOBL190	Contractor Offices & Furniture	8	17-Jun-13 A	25-Jun-13 A
Submittals		1031	14-May-13 A	05-Mar-16
Pre-Construction Submittals		135	14-May-13 A	25-Sep-13 A
PCS-100	Prepare & submit Bank Guarantee Certificate & Insurance	13	14-May-13 A	28-May-13 A
PCS-110	Approval of bank Guarantee & Insurance	0		04-Jun-13 A
PCS-120	Prepare & submit Submittals Schedule	11	14-May-13 A	26-May-13 A
PCS-130	Approval of Submittals Schedule	0		11-Jun-13 A
PCS-140	Prepare & submit General Construction Method Statement	40	14-May-13 A	30-Jun-13 A
PCS-150	Approval of General Construction Method Statement	0		04-Jul-13 A
PCS-160	Prepare & submit List of Permits & Licenses	14	16-May-13 A	01-Jun-13 A
PCS-170	Approval of list of Permits & Licenses	0		20-Jun-13 A
PCS-180	Prepare & Submit Key Staff	10	16-May-13 A	27-May-13 A
PCS-190	Approval of Key Staff	0		15-Jun-13 A
PCS-200	Prepare & submit Subcontractor's Profile	10	19-May-13 A	29-May-13 A
PCS-210	Approval of Subcontractor's Profile	0		17-Jun-13 A
PCS-220	Prepare & submit 60 Day Plan of Operation	20	19-May-13 A	11-Jun-13 A
PCS-230	Approval of 60 Day Plan of Operation	0		18-Jun-13 A
PCS-240	Prepare & submit Project Permenant sign	34	21-May-13 A	30-Jun-13 A
PCS-250	Approval of Project Permanent sign	0		02-Jul-13 A
PCS-260	Prepare & submit Bar Chart Overview Schedule	18	21-May-13 A	11-Jun-13 A
PCS-270	Approval of Bar Chart Overview Schedule	0		11-Jun-13 A
PCS-280	Prepare & submit Field Office Layout	3	21-May-13 A	23-May-13 A
PCS-290	Approval of Field Office Layout	0		29-May-13 A
PCS-300	Prepare & Submit Environmental Mitigation Plan	41	21-May-13 A	08-Jul-13 A
PCS-310	Approval of Environmental Mitigation Plan	0		10-Jul-13 A
PCS-320	Prepare & submit Quality Control Plan	26	21-May-13 A	20-Jun-13 A
PCS-330	Approval of Quality Control Plan	0		04-Jul-13 A
PCS-340	Prepare & submit Risk Management Plan	26	21-May-13 A	20-Jun-13 A
PCS-350	Approval of Risk Management Plan	0		27-Jun-13 A
PCS-360	Prepare & submit Office Furniture & Equipment	11	21-May-13 A	02-Jun-13 A
PCS-370	Approval of Office Furniture & Equipment	0		04-Jun-13 A
PCS-380	Prepare & submit CPM Schedule & S-Curve	97	21-May-13 A	19-Sep-13 A
PCS-390	Approval of CPM Schedule & S-Curve	0		25-Sep-13 A
PCS-400	Prepare & Submit Delapidation Survey	24	23-May-13 A	20-Jun-13 A
PCS-410	Approval of Submit Dilapidation Survey	0		24-Jun-13 A
PCS-420	Prepare & submit safety Plan	18	23-May-13 A	13-Jun-13 A
PCS-430	Approval of Safety Plan	0		02-Jul-13 A
PCS-440	Prepare & submit Traffic Control Plan	47	23-May-13 A	21-Jul-13 A
PCS-450	Approval of Traffic Control Plan	0		24-Jul-13 A
Material Submittals		891	19-Jun-13 A	26-Nov-15 A
1MATM107	Prepare & submit steel Pipes ,valves & Fittings	20	19-Jun-13 A	13-Jul-13 A
2MATM095	Approval of Pipes & Fittings	0		24-Jul-13 A
3MEC199	Prepare & submit Combination Air Valve Plans & sections	32	19-Jun-13 A	31-Jul-13 A
4MEC189	Approval of buried flange Gate Valve -Plans & sections	0		05-Aug-13 A
5MATM128	(Prepare & submit dismantling joint- Product Data & Sample)	11	01-Jul-13 A	15-Jul-13 A
6MATM129	Approval of dismantling joint - Product Data & Sample	0		31-Jul-13 A
7MEC189	Prepare & submit Strainer meter- Plans & sections	16	01-Jul-13 A	22-Jul-13 A

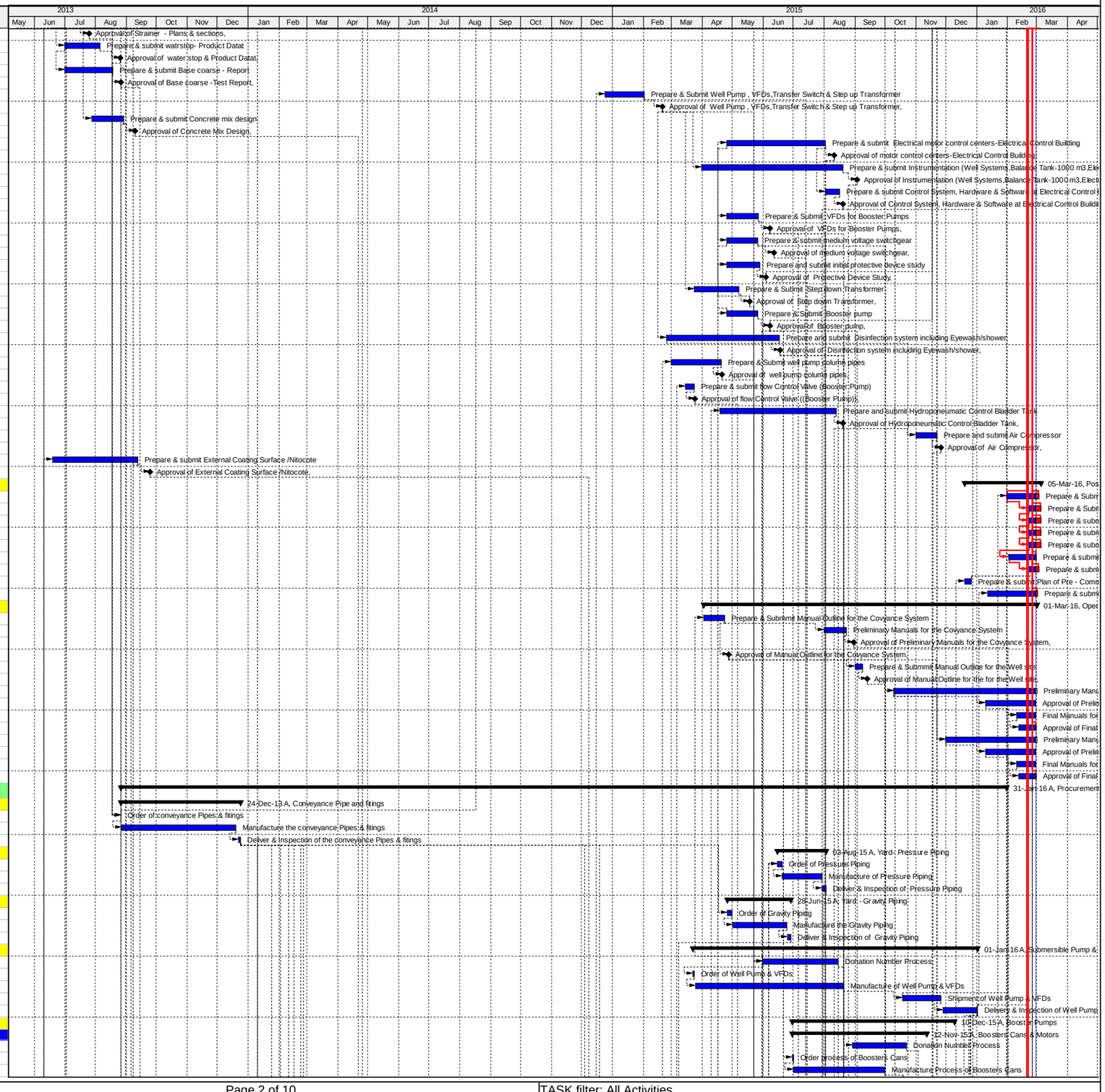


Actual Level of Effort | Actual Work | Remaining Work | Critical Remaining Work | Milestone | summary

TASK filter: All Activities

Updated Schedule Up to 29.2.2016

Activity ID	Activity Name	Original Duration	Start	Finish
8MEC199	Approval of Strainer - Plans & sections	0		25-Jul-13 A
91MATM114	Prepare & submit watrstop- Product Datat	25	01-Jul-13 A	05-Aug-13 A
92MATM115	Approval of water stop & Product Datat	0		25-Aug-13 A
93MATC111	Prepare & submit Base coarse - Report	35	01-Jul-13 A	18-Aug-13 A
94MATC112	Approval of Base coarse -Test Report	0		26-Aug-13 A
EMATM090	Prepare & Submit Well Pump , VFDs,Transfer Switch & Step up Trans	27	24-Dec-14 A	01-Feb-15 A
EMATM091	Approval of Well Pump , VFDs,Transfer Switch & Step up Transforme	0		20-Feb-15 A
MATC113	Prepare & submit Concrete mix design	25	28-Jul-13 A	29-Aug-13 A
MATC114	Approval of Concrete Mix Design	0		09-Sep-13 A
MATE102	Prepare & submit Electrical motor control centers-Electrical Control B	78	25-Apr-15 A	02-Aug-15 A
MATE103	Approval of motor control centers-Electrical Control Building	0		11-Aug-15 A
MATE123	Prepare & submit Instrumentation (Well Systems,Balance Tank-1000 r	115	31-Mar-15 A	20-Aug-15 A
MATE133	Approval of Instrumentation (Well Systems,Balance Tank-1000 m3,Ele	0		03-Sep-15 A
MATE174	Prepare & submit Control System, Hardware & Software at Electrical C	12	02-Aug-15 A	16-Aug-15 A
MATE175	Approval of Control System, Hardware & Software at Electrical Contro	0		20-Aug-15 A
MATE181	Prepare & Submit VFDs for Booster Pumps	28	25-Apr-15 A	27-May-15 A
MATE182	Approval of VFDs for Booster Pumps	0		07-Jun-15 A
MATE214	Prepare & submit medium voltage switchgear	27	25-Apr-15 A	26-May-15 A
MATE224	Approval of medium voltage switchgear	0		11-Jun-15 A
MATE234	Prepare and submit initial protective device study	29	25-Apr-15 A	28-May-15 A
MATE244	Approval of Protective Device Study	0		03-Jun-15 A
MATE245	Prepare & Submit Step down Transformer	39	24-Mar-15 A	07-May-15 A
MATE246	Approval of Step down Transformer	0		18-May-15 A
MATM110	Prepare & Submit Booster pump	27	25-Apr-15 A	26-May-15 A
MATM111	Approval of Booster pump	0		07-Jun-15 A
MATM121	Prepare and submit Disinfection system including Eyewash/shower	97	24-Feb-15 A	17-Jun-15 A
MATM131	Approval of Disinfection system including Eyewash/shower	0		18-Jun-15 A
MATM141	Prepare & Submit well pump column pipes	44	01-Mar-15 A	20-Apr-15 A
MATM151	Approval of well pump column pipes	0		21-Apr-15 A
MATM161	Prepare & submit flow Control Valve (Booster Pump)	9	15-Mar-15 A	24-Mar-15 A
MATM171	Approval of flow Control Valve ((Booster Pump))	0		25-Mar-15 A
MATM172	Prepare and submit Hydroponeumatic Control Bladder Tank	93	19-Apr-15 A	13-Aug-15 A
MATM173	Approval of Hydroponeumatic Control Bladder Tank	0		20-Aug-15 A
MATM183	Prepare and submit Air Compressor	17	01-Nov-15 A	22-Nov-15 A
MATM193	Approval of Air Compressor	0		26-Nov-15 A
MATM261	Prepare & submit External Coating Surface /Nitocote	67	19-Jun-13 A	12-Sep-13 A
MATM262	Approval of External Coating Surface /Nitocote	0		24-Sep-13 A
Post Construction Submittals		66	20-Dec-15 A	05-Mar-16
POSS-030	Prepare & Submit As Built Drawings	10	31-Jan-16 A	03-Mar-16
POSS-050	Prepare & Submit final acceptance certificate	10	22-Feb-16 A	05-Mar-16
POSS-070	Prepare & submit warranties (to USAID)	10	22-Feb-16 A	05-Mar-16
POSS-090	Prepare & submit release of liens & Waiver of debts & claims letter aga	10	22-Feb-16 A	05-Mar-16
POSS-110	Prepare & submit Final Report	10	22-Feb-16 A	05-Mar-16
POSS-130	Prepare & submit Training completion documents	10	02-Feb-16 A	29-Feb-16
POSS-150	Prepare & submit clearance certificate from local entities	10	22-Feb-16 A	03-Mar-16
POSS-170	Prepare & submit Plan of Pre - Commissioning & Commissioning	6	20-Dec-15 A	27-Dec-15 A
POSS-190	Prepare & submit Plan of Training	24	12-Jan-16 A	02-Mar-16
Operation & Maintinance Submittals		338	02-Apr-15 A	01-Mar-16
O&M 7770	Prepare & Submmit Manual Outline for the Covyance System	22	02-Apr-15 A	23-Apr-15 A
O&M 7771	Preliminary Manuals for the Covyance System	23	01-Aug-15 A	23-Aug-15 A
O&M 7772	Approval of Preliminary Manuals for the Covyance System	0		30-Aug-15 A
O&M 7780	Approval of Manual Outline for the Covyance System	0		27-Apr-15 A
O&M 7781	Prepare & Submmit Manual Outline for the Well site	8	01-Sep-15 A	08-Sep-15 A
O&M 7782	Approval of Manual Outline for the for the Well site	0		13-Sep-15 A
O&M 7790	Preliminary Manuals for Equipment and Systems	116	10-Oct-15 A	01-Mar-16
O&M 7800	Approval of Preliminary Manuals for Equipment and Systems	24	10-Jan-16 A	29-Feb-16
O&M 7810	Final Manuals for Equipment and Systems	10	10-Feb-16 A	29-Feb-16
O&M 7820	Approval of Final Manuals for Equipment and Systems	5	12-Feb-16 A	29-Feb-16
O&M 7830	Preliminary Manuals for Materials and Finishes	64	01-Dec-15 A	01-Mar-16
O&M 7840	Approval of Preliminary Manuals for Materials and Finishes	24	10-Jan-16 A	29-Feb-16
O&M 7850	Final Manuals for Materials and Finishes	10	10-Feb-16 A	29-Feb-16
O&M 7860	Approval of Final Manuals for Materials and Finishes	5	12-Feb-16 A	29-Feb-16
Procurement		889	26-Aug-13 A	31-Jan-16 A
Conveyance Pipe and fitings		121	26-Aug-13 A	24-Dec-13 A
PROC100	Order of conveyance Pipes & fitings	1	26-Aug-13 A	26-Aug-13 A
PROC102	Manufacture the conveyance Pipes & fitings	115	27-Aug-13 A	19-Dec-13 A
PROC104	Deliver & Inspection of the conveyance Pipes & fitings	3	22-Dec-13 A	24-Dec-13 A
Yard- Pressure Piping		49	15-Jun-15 A	03-Aug-15 A
PROC107	Order of Pressure Piping	4	15-Jun-15 A	20-Jun-15 A
PROC108	Manufacture of Pressure Piping	40	20-Jun-15 A	30-Jul-15 A
PROC110	Deliver & Inspection of Pressure Piping	4	30-Jul-15 A	03-Aug-15 A
Yard - Gravity Piping		64	26-Apr-15 A	28-Jun-15 A
PROC145	Order of Gravity Piping	5	26-Apr-15 A	30-Apr-15 A
PROC146	Manufacture the Gravity Piping	55	01-May-15 A	24-Jun-15 A
PROC185	Deliver & Inspection of Gravity Piping	4	25-Jun-15 A	28-Jun-15 A
Submersible Pump & VFDs		285	23-Mar-15 A	01-Jan-16 A
PROC111	Donation Number Process	59	31-May-15 A	15-Aug-15 A
PROC112	Order of Well Pump & VFDs	2	23-Mar-15 A	24-Mar-15 A
PROC113	Manufacture of Well Pump & VFDs	149	25-Mar-15 A	20-Aug-15 A
PROC114	Shipment of Well Pump & VFDs	39	19-Oct-15 A	26-Nov-15 A
PROC115	Delivery & Inspection of Well Pump & VFDs	35	28-Nov-15 A	01-Jan-16 A
Booster Pumps		164	30-Jun-15 A	10-Dec-15 A
Boosters Cans & Motors		135	30-Jun-15 A	12-Nov-15 A
PROC395	Donation Number Process	44	29-Aug-15 A	22-Oct-15 A
PROC405	Order process of Boosters Cans	1	30-Jun-15 A	01-Jul-15 A
PROC415	Manufacture Process of Boosters Cans	93	01-Jul-15 A	01-Oct-15 A



Actual Level of Effort | Remaining Work | Milestone
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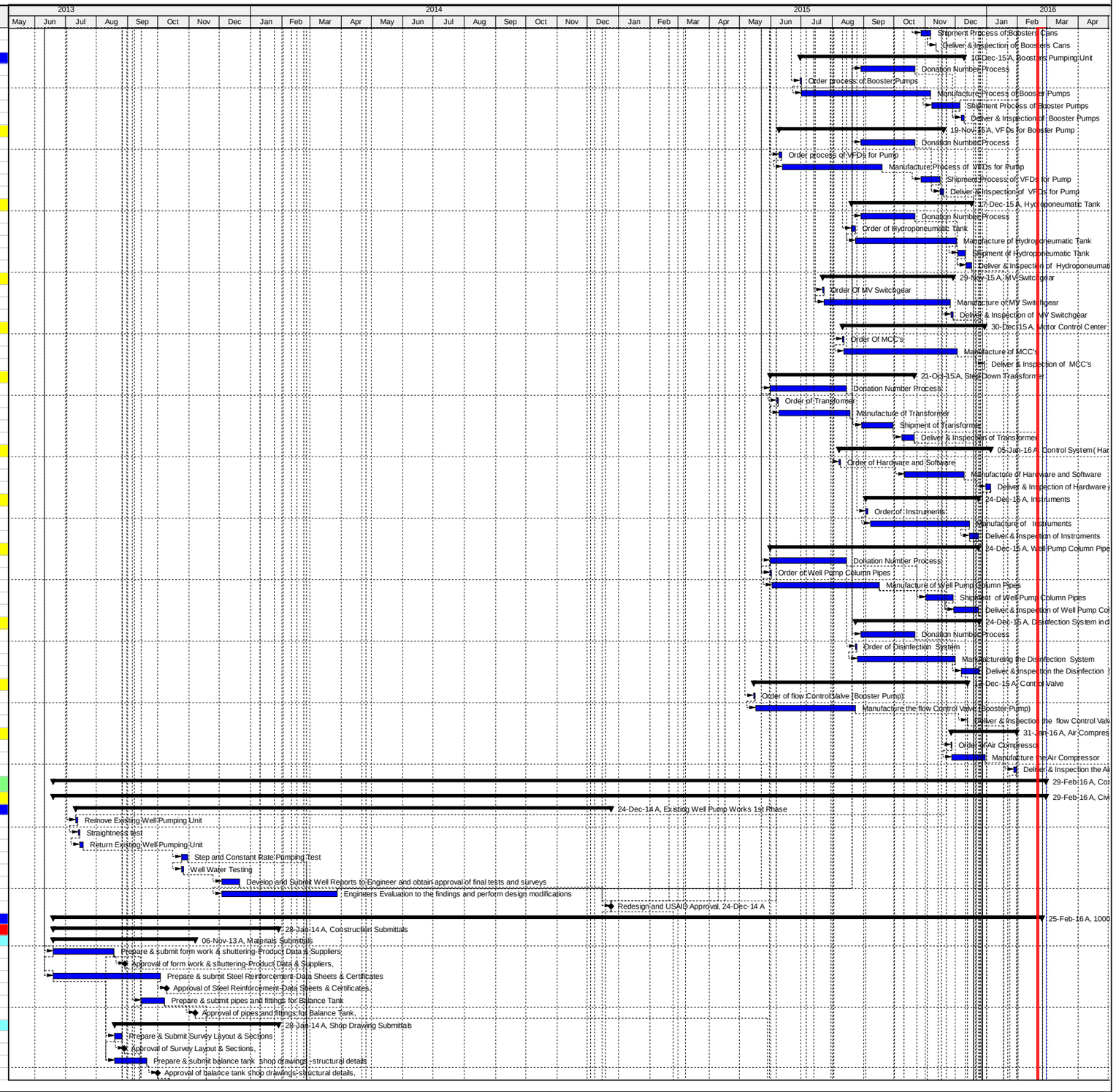
TASK filter: All Activities

Updated Schedule Up to 29.2.2016

Activity ID	Activity Name	Original Duration	Start	Finish
PROC425	Shipment Process of Boosters Cans	11	28-Oct-15 A	07-Nov-15 A
PROC435	Deliver & Inspection of Boosters Cans	0	12-Nov-15 A	12-Nov-15 A
Boosters Pumping Unit		164	30-Jun-15 A	10-Dec-15 A
PROC116	Donation Number Process	44	29-Aug-15 A	22-Oct-15 A
PROC117	Order process of Booster Pumps	1	30-Jun-15 A	01-Jul-15 A
PROC118	Manufacture Process of Booster Pumps	130	01-Jul-15 A	07-Nov-15 A
PROC119	Shipment Process of Booster Pumps	29	08-Nov-15 A	06-Dec-15 A
PROC120	Deliver & Inspection of Booster Pumps	4	07-Dec-15 A	10-Dec-15 A
VFDs for Booster Pump		164	09-Jun-15 A	19-Nov-15 A
PROC305	Donation Number Process	44	29-Aug-15 A	22-Oct-15 A
PROC315	Order process of VFDs for Pump	3	09-Jun-15 A	11-Jun-15 A
PROC325	Manufacture Process of VFDs for Pump	99	12-Jun-15 A	19-Sep-15 A
PROC335	Shipment Process of VFDs for Pump	20	28-Oct-15 A	16-Nov-15 A
PROC345	Deliver & Inspection of VFDs for Pump	4	16-Nov-15 A	19-Nov-15 A
Hydroponeumatic Tank		120	20-Aug-15 A	17-Dec-15 A
PROC121	Donation Number Process	44	29-Aug-15 A	22-Oct-15 A
PROC122	Order of Hydroponeumatic Tank	3	20-Aug-15 A	24-Aug-15 A
PROC123	Manufacture of Hydroponeumatic Tank	100	24-Aug-15 A	02-Dec-15 A
PROC124	Shipment of Hydroponeumatic Tank	8	04-Dec-15 A	11-Dec-15 A
PROC125	Deliver & Inspection of Hydroponeumatic Tank	6	12-Dec-15 A	17-Dec-15 A
MV Switchgear		131	22-Jul-15 A	29-Nov-15 A
PROC127	Order Of MV Switchgear	2	22-Jul-15 A	23-Jul-15 A
PROC128	Manufacture of MV Switchgear	126	24-Jul-15 A	26-Nov-15 A
PROC130	Deliver & Inspection of MV Switchgear	3	27-Nov-15 A	29-Nov-15 A
Motor Control Center		141	11-Aug-15 A	30-Dec-15 A
PROC355	Order Of MCC's	1	11-Aug-15 A	12-Aug-15 A
PROC365	Manufacture of MCC's	114	12-Aug-15 A	03-Dec-15 A
PROC385	Deliver & Inspection of MCC's	0	30-Dec-15 A	30-Dec-15 A
Step Down Transformer		144	31-May-15 A	21-Oct-15 A
PROC255	Donation Number Process	59	31-May-15 A	15-Aug-15 A
PROC265	Order of Transformer	2	07-Jun-15 A	08-Jun-15 A
PROC275	Manufacture of Transformer	71	09-Jun-15 A	18-Aug-15 A
PROC285	Shipment of Transformer	32	30-Aug-15 A	30-Sep-15 A
PROC295	Deliver & Inspection of Transformer	13	09-Oct-15 A	21-Oct-15 A
Control System(Hardware & Software)		151	08-Aug-15 A	05-Jan-16 A
PROC132	Order of Hardware and Software	2	08-Aug-15 A	09-Aug-15 A
PROC133	Manufacture of Hardware and Software	60	12-Oct-15 A	10-Dec-15 A
PROC135	Deliver & Inspection of Hardware and Software	6	31-Dec-15 A	05-Jan-16 A
Instruments		113	03-Sep-15 A	24-Dec-15 A
PROC137	Order of Instruments	1	03-Sep-15 A	05-Sep-15 A
PROC138	Manufacture of Instruments	98	08-Sep-15 A	15-Dec-15 A
PROC140	Deliver & Inspection of Instruments	10	15-Dec-15 A	24-Dec-15 A
Well Pump Column Pipes		208	31-May-15 A	24-Dec-15 A
PROC224	Donation Number Process	59	31-May-15 A	15-Aug-15 A
PROC225	Order of Well Pump Column Pipes	2	31-May-15 A	01-Jun-15 A
PROC235	Manufacture of Well Pump Column Pipes	108	02-Jun-15 A	17-Sep-15 A
PROC236	Shipment of Well Pump Column Pipes	28	02-Nov-15 A	29-Nov-15 A
PROC245	Deliver & Inspection of Well Pump Column Pipes	25	30-Nov-15 A	24-Dec-15 A
Disinfection System including Eyewash/shower		123	24-Aug-15 A	24-Dec-15 A
PROC194	Donation Number Process	44	29-Aug-15 A	22-Oct-15 A
PROC195	Order of Disinfection System	2	24-Aug-15 A	25-Aug-15 A
PROC205	Manufactureing the Disinfection System	98	26-Aug-15 A	01-Dec-15 A
PROC215	Deliver & Inspection the Disinfection System	18	07-Dec-15 A	24-Dec-15 A
Control Valve		212	15-May-15 A	13-Dec-15 A
A7730	Order of flow Control Valve (Booster Pump)	2	15-May-15 A	16-May-15 A
A7740	Manufacture the flow Control Valve (Booster Pump)	100	17-May-15 A	24-Aug-15 A
A7760	Deliver & Inspection the flow Control Valve (Booster Pump)	0	13-Dec-15 A	13-Dec-15 A
Air Compressor		66	27-Nov-15 A	31-Jan-16 A
A7780	Order of Air Compressor	2	27-Nov-15 A	28-Nov-15 A
A7790	Manufacture the Air Compressor	34	28-Nov-15 A	31-Dec-15 A
A7800	Deliver & Inspection the Air Compressor	2	28-Jan-16 A	31-Jan-16 A
Construction Phase		985	19-Jun-13 A	29-Feb-16 A
Civil & Electro-Mechanical Works		985	19-Jun-13 A	29-Feb-16 A
Existing Well Pump Works 1st Phase		531	11-Jul-13 A	24-Dec-14 A
WPD-002	Remove Existing Well Pumping Unit	1	11-Jul-13 A	13-Jul-13 A
WPD-003	Straightness test	1	14-Jul-13 A	15-Jul-13 A
WPD-004	Return Existing Well Pumping Unit	3	15-Jul-13 A	19-Jul-13 A
WPD-012	Step and Constant Rate Pumping Test	6	24-Oct-13 A	30-Oct-13 A
WPD-013	Well Water Testing	2	24-Oct-13 A	26-Oct-13 A
WPD-018	Develop and Submit Well Reports to Engineer and obtain approval of fi	10	03-Dec-13 A	21-Dec-13 A
WPD-028	Engineers Evaluation to the findings and perform design modifications	115	03-Dec-13 A	27-Mar-14 A
WPD-038	Redesign and USAID Approval	0	24-Dec-14 A	
1000m3 Balance Tank		967	19-Jun-13 A	25-Feb-16 A
Construction Submittals		224	19-Jun-13 A	28-Jan-14 A
Materials Submittals		141	19-Jun-13 A	06-Nov-13 A
MATC105	Prepare & submit form work & shuttering-Product Data & Suppliers	45	19-Jun-13 A	18-Aug-13 A
MATC106	Approval of form work & shuttering-Product Data & Suppliers	0		29-Aug-13 A
MATC109	Prepare & submit Steel Reinforcement-Data Sheets & Certificates	85	19-Jun-13 A	03-Oct-13 A
MATC110	Approval of Steel Reinforcement-Data Sheets & Certificates	0		09-Oct-13 A
MATM104	Prepare & submit pipes and fittings for Balance Tank	21	14-Sep-13 A	07-Oct-13 A
MATM105	Approval of pipes and fittings for Balance Tank	0		06-Nov-13 A
Shop Drawing Submittals		163	19-Aug-13 A	28-Jan-14 A
CS100	Prepare & Submit Survey Layout & Sections	7	19-Aug-13 A	26-Aug-13 A
CS101	Approval of Survey Layout & Sections	0		28-Aug-13 A
CS132	Prepare & submit balance tank shop drawings -structural details	28	19-Aug-13 A	19-Sep-13 A
CS133	Approval of balance tank shop drawings-structural details	0		30-Sep-13 A



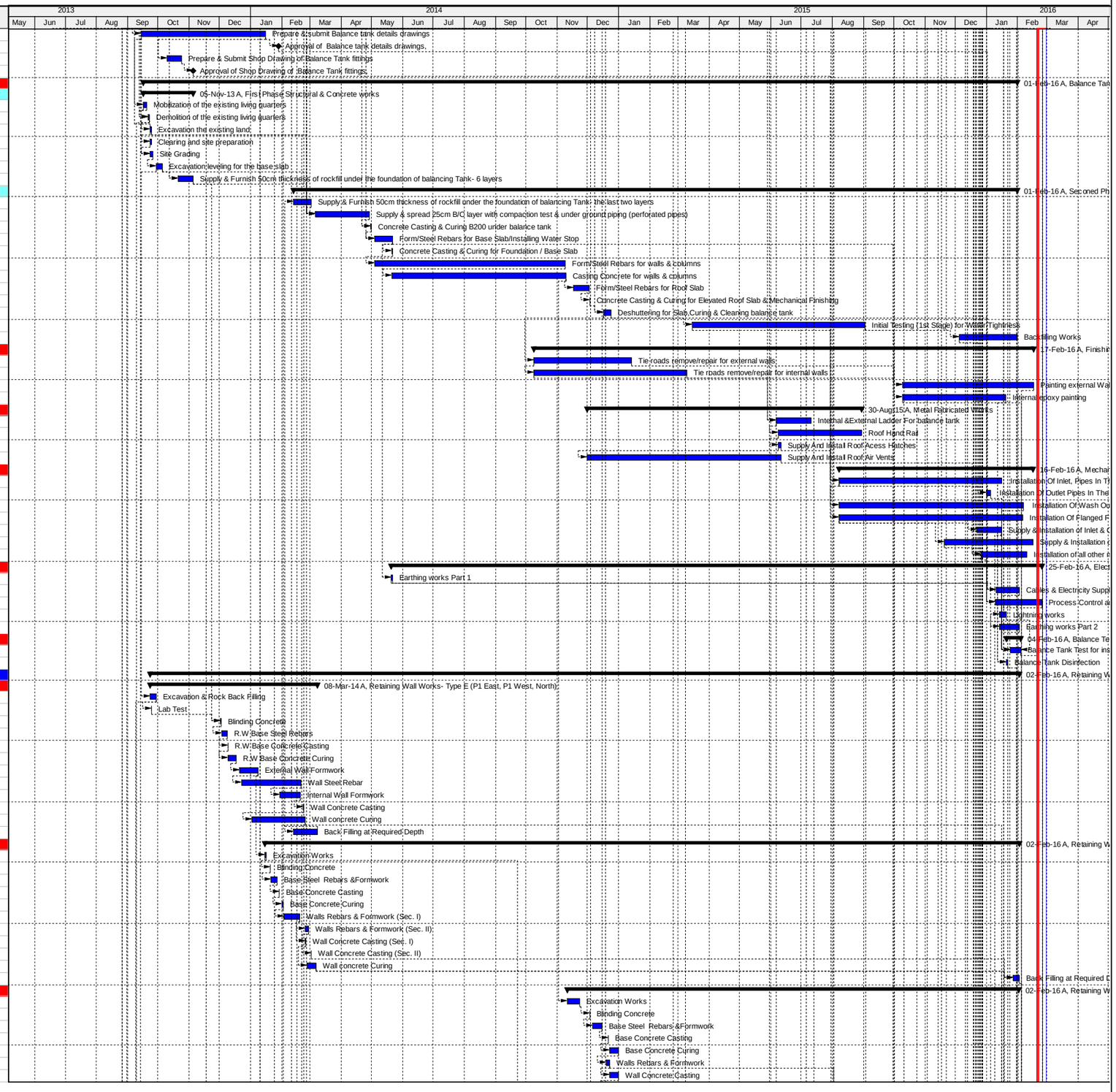
Actual Level of Effort Remaining Work Milestone

Actual Work Critical Remaining Work summary

TASK filter: All Activities

Updated Schedule Up to 29.2.2016

Activity ID	Activity Name	Original Duration	Start	Finish
ELC118	Prepare & submit Balance tank details drawings	95	14-Sep-13 A	15-Jan-14 A
ELC119	Approval of Balance tank details drawings	0		28-Jan-14 A
MEC100	Prepare & Submit Shop Drawing of Balance Tank fittings	10	10-Oct-13 A	24-Oct-13 A
MEC101	Approval of Shop Drawing of Balance Tank fittings	0		04-Nov-13 A
Balance Tank Civil Works		694	16-Sep-13 A	01-Feb-16 A
First Phase Structural & Concrete works		41	16-Sep-13 A	05-Nov-13 A
BT-010	Mobilization of the existing living quarters	4	16-Sep-13 A	19-Sep-13 A
BT-020	Demolition of the existing living quarters	2	21-Sep-13 A	22-Sep-13 A
BT-030	Excavation the existing land	2	23-Sep-13 A	24-Sep-13 A
BT-040	Clearing and site preparation	2	23-Sep-13 A	24-Sep-13 A
BT-050	Site Grading	3	23-Sep-13 A	25-Sep-13 A
BT-060	Excavation leveling for the base slab	6	29-Sep-13 A	05-Oct-13 A
BT-060-N	Supply & Furnish 50cm thickness of rockfill under the foundation of ba	14	21-Oct-13 A	05-Nov-13 A
Seconed Phase Structural & Concrete Works		579	12-Feb-14 A	01-Feb-16 A
BT-069-N	Supply & Furnish 50cm thickness of rockfill under the foundation of ba	16	12-Feb-14 A	02-Mar-14 A
BT-070	Supply & spread 25cm B/C layer with compaction test & under ground	47	06-Mar-14 A	29-Apr-14 A
BT-090	Concrete Casting & Curing B200 under balance tank	1	30-Apr-14 A	30-Apr-14 A
BT-100	Form/Steel Rebars for Base Slab/Installing Water Stop	16	04-May-14 A	21-May-14 A
BT-110	Concrete Casting & Curing for Foundation / Base Slab	1	21-May-14 A	21-May-14 A
BT-150	Form/Steel Rebars for walls & columns	152	04-May-14 A	09-Nov-14 A
BT-160	Casting Concrete for walls & columns	138	21-May-14 A	10-Nov-14 A
BT-190	Form/Steel Rebars for Roof Slab	15	17-Nov-14 A	03-Dec-14 A
BT-200	Concrete Casting & Curing for Elevated Roof Slab & Mechanical Finish	1	03-Dec-14 A	03-Dec-14 A
BT-210	Deshuttering for Slab,Curing & Cleaning balance tank	6	17-Dec-14 A	24-Dec-14 A
BT-211	Initial Testing (1st Stage) for Water Tightness	140	15-Mar-15 A	02-Sep-15 A
BT-221	Backfilling Works	47	05-Dec-15 A	01-Feb-16 A
Finishing works		389	09-Oct-14 A	17-Feb-16 A
BT-230	Tie roads remove/repair for external walls	75	09-Oct-14 A	14-Jan-15 A
BT-240	Tie roads remove/repair for internal walls	121	09-Oct-14 A	10-Mar-15 A
BT-250	Painting external Walls	96	10-Oct-15 A	17-Feb-16 A
BT-260	Internal epoxy painting	77	10-Oct-15 A	20-Jan-16 A
Metal Fabricated Works		184	01-Dec-14 A	30-Aug-15 A
BT-270	Internal &External Ladder For balance tank	28	06-Jun-15 A	11-Jul-15 A
BT-290	Roof Hand Rail	27	08-Jun-15 A	30-Aug-15 A
BT-300	Supply And Install Roof Acess Hatches	31	08-Jun-15 A	11-Jun-15 A
BT-310	Supply And Install Roof Air Vents	3	01-Dec-14 A	11-Jun-15 A
Mechanical Works		145	08-Aug-15 A	16-Feb-16 A
BT-320	Installation Of Inlet, Pipes In The Yard	130	08-Aug-15 A	16-Jan-16 A
BT-330	Installation Of Outlet Pipes In The Yard	3	01-Jan-16 A	05-Jan-16 A
BT-340	Installation Of Wash Out In The Yard	145	08-Aug-15 A	07-Feb-16 A
BT-350	Installation Of Flanged Flap & Over Flow In The Yard	145	08-Aug-15 A	06-Feb-16 A
BT-360	Supply & Installation of Inlet & Outlet Fittings	18	23-Dec-15 A	16-Jan-16 A
BT-370	Supply & Installation of washout & Overflow Fittings	60	20-Nov-15 A	16-Feb-16 A
BT-400	Installation of all other mechanical equipment, including mixer, flow me	28	27-Dec-15 A	10-Feb-16 A
Electrical & Instrumentation works		499	20-May-14 A	25-Feb-16 A
BT-380	Earthing works Part 1	3	20-May-14 A	22-May-14 A
BT-390	Cables & Electricity Supply	0	11-Jan-16 A	03-Feb-16 A
BT-430	Process Control and Instrumentation	21	10-Jan-16 A	25-Feb-16 A
BT-431	Lightning works	5	14-Jan-16 A	21-Jan-16 A
BT-441	Earthing works Part 2	15	14-Jan-16 A	02-Feb-16 A
Balance Test		17	21-Jan-16 A	04-Feb-16 A
BT-440	Balance Tank Test for instrumentation and process control	5	25-Jan-16 A	04-Feb-16 A
BT-450	Balance Tank Disinfection	0	21-Jan-16 A	22-Jan-16 A
Retaining Wall Works		864	23-Sep-13 A	02-Feb-16 A
Retaining Wall Works- Type E (P1 East, P1 West, North)		167	23-Sep-13 A	08-Mar-14 A
New Item-R\	Excavation & Rock Back Filling	6	23-Sep-13 A	29-Sep-13 A
New Item-R\	Lab Test	1	24-Sep-13 A	24-Sep-13 A
New Item-R\	Blinding Concrete	1	02-Dec-13 A	02-Dec-13 A
New Item-R\	R.W Base Steel Rebars	5	03-Dec-13 A	08-Dec-13 A
New Item-R\	R.W Base Concrete Casting	1	09-Dec-13 A	09-Dec-13 A
New Item-R\	R.W Base Concrete Curing	9	09-Dec-13 A	17-Dec-13 A
New Item-R\	External Wall Formwork	15	21-Dec-13 A	08-Jan-14 A
New Item-R\	Wall Steel Rebar	48	23-Dec-13 A	20-Feb-14 A
New Item-R\	Internal Wall Formwork	18	30-Jan-14 A	19-Feb-14 A
New Item-R\	Wall Concrete Casting	1	22-Feb-14 A	22-Feb-14 A
New Item-R\	Wall concrete Curing	54	02-Jan-14 A	24-Feb-14 A
New Item-R\	Back Filling at Required Depth	21	12-Feb-14 A	08-Mar-14 A
Retaining Wall Works- Type E&F (P2 East)		749	15-Jan-14 A	02-Feb-16 A
New Item-R\	Excavation Works	1	15-Jan-14 A	16-Jan-14 A
New Item-R\	Blinding Concrete	1	20-Jan-14 A	20-Jan-14 A
New Item-R\	Base Steel Rebars &Formwork	6	21-Jan-14 A	27-Jan-14 A
New Item-R\	Base Concrete Casting	1	29-Jan-14 A	29-Jan-14 A
New Item-R\	Base Concrete Curing	2	01-Feb-14 A	02-Feb-14 A
New Item-R\	Walls Rebars & Formwork (Sec. I)	14	03-Feb-14 A	18-Feb-14 A
New Item-R\	Walls Rebars & Formwork (Sec. II)	4	24-Feb-14 A	27-Feb-14 A
New Item-R\	Wall Concrete Casting (Sec. I)	1	24-Feb-14 A	24-Feb-14 A
New Item-R\	Wall Concrete Casting (Sec. II)	0	02-Mar-14 A	02-Mar-14 A
New Item-R\	Wall concrete Curing	9	26-Feb-14 A	06-Mar-14 A
New Item-R\	Back Filling at Required Depth	6	28-Jan-16 A	02-Feb-16 A
Retaining Wall Works- Type E&F (P2 West)		450	11-Nov-14 A	02-Feb-16 A
New Item-R\	Excavation Works	10	11-Nov-14 A	23-Nov-14 A
New Item-R\	Blinding Concrete	1	03-Dec-14 A	03-Dec-14 A
New Item-R\	Base Steel Rebars &Formwork	9	06-Dec-14 A	15-Dec-14 A
New Item-R\	Base Concrete Casting	1	22-Dec-14 A	22-Dec-14 A
New Item-R\	Base Concrete Curing	10	23-Dec-14 A	01-Jan-15 A
New Item-R\	Walls Rebars & Formwork	4	20-Dec-14 A	23-Dec-14 A
New Item-R\	Wall Concrete Casting	7	23-Dec-14 A	01-Jan-15 A

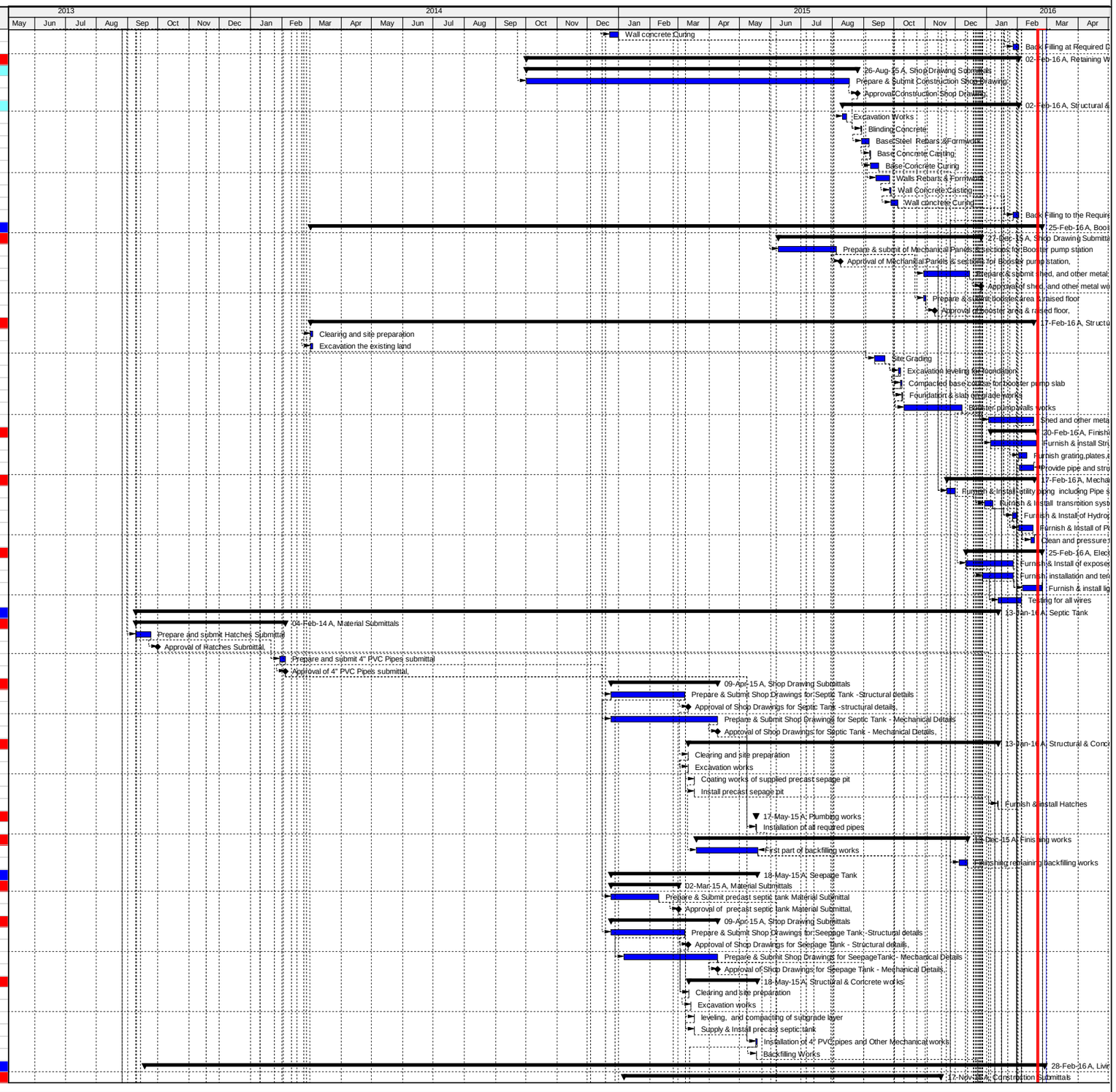


Actual Level of Effort | Remaining Work | Milestone
Actual Work | Critical Remaining Work | summary

TASK filter: All Activities

Updated Schedule Up to 29.2.2016

Activity ID	Activity Name	Original Duration	Start	Finish
New Item-R\	Wall concrete Curing	10	23-Dec-14 A	01-Jan-15 A
New Item-R\	Back Filling at Required Depth	6	28-Jan-16 A	02-Feb-16 A
Retaining Wall Works- Type E & F (P3 East & South)		491	01-Oct-14 A	02-Feb-16 A
Shop Drawing Submittals		329	01-Oct-14 A	26-Aug-15 A
RW7770	Prepare & Submit Construction Shop Drawing	255	01-Oct-14 A	18-Aug-15 A
RW7780	Approval Construction Shop Drawing	0		26-Aug-15 A
Structural & Concrete works		177	11-Aug-15 A	02-Feb-16 A
RW7790	Excavation Works	4	11-Aug-15 A	15-Aug-15 A
RW7800	Blinding Concrete	1	29-Aug-15 A	30-Aug-15 A
RW7810	Base Steel Rebars &Formwork	6	30-Aug-15 A	06-Sep-15 A
RW7820	Base Concrete Casting	1	07-Sep-15 A	08-Sep-15 A
RW7821	Base Concrete Curing	8	08-Sep-15 A	16-Sep-15 A
RW7830	Walls Rebars & Formwork	9	13-Sep-15 A	27-Sep-15 A
RW7850	Wall Concrete Casting	1	27-Sep-15 A	28-Sep-15 A
RW7860	Wall concrete Curing	7	28-Sep-15 A	05-Oct-15 A
RW7870	Back Filling to the Required Depth	6	28-Jan-16 A	02-Feb-16 A
Booster Pump System		723	01-Mar-14 A	25-Feb-16 A
Shop Drawing Submittals		203	08-Jun-15 A	27-Dec-15 A
MEC104	Prepare & submit of Mechanical Panels & sections for Booster pump s	44	08-Jun-15 A	05-Aug-15 A
MEC105	Approval of Mechanical Panels & sections for Booster pump station	0		09-Aug-15 A
MEC125	Prepare & submit shed, and other metal works	38	31-Oct-15 A	15-Dec-15 A
MEC135	Approval of shed, and other metal works	0		27-Dec-15 A
MEC145	Prepare & submit booster area & raised floor	3	31-Oct-15 A	02-Nov-15 A
MEC155	Approval of booster area & raised floor	0		11-Nov-15 A
Structural & Concrete works		706	01-Mar-14 A	17-Feb-16 A
BPS-010	Clearing and site preparation	2	01-Mar-14 A	03-Mar-14 A
BPS-020	Excavation the existing land	3	01-Mar-14 A	03-Mar-14 A
BPS-030	Site Grading	10	12-Sep-15 A	22-Sep-15 A
BPS-040	Excavation leveling for foundation	3	06-Oct-15 A	08-Oct-15 A
BPS-050	Compacted base course for booster pump slab	1	08-Oct-15 A	09-Oct-15 A
BPS-060	Foundation & slab on grade works	1	09-Oct-15 A	10-Oct-15 A
BPS-080	Booster pump walls works	48	11-Oct-15 A	08-Dec-15 A
BPS-090	Shed and other metal installation works	33	03-Jan-16 A	17-Feb-16 A
Finishing works		39	05-Jan-16 A	20-Feb-16 A
BPS-110	Furnish & install Structural steel and roofing including roof hatches	28	05-Jan-16 A	20-Feb-16 A
BPS-120	Furnish grating,plates,embeds, ladders	10	02-Feb-16 A	10-Feb-16 A
BPS-250	Provide pipe and structual steel external coating	3	03-Feb-16 A	17-Feb-16 A
Mechanical Works		71	23-Nov-15 A	17-Feb-16 A
BPS-130	Furnish & Install utility piping including Pipe supports, valves and Barr	8	23-Nov-15 A	01-Dec-15 A
BPS-140	Furnish & Install transmition system pumps	7	30-Dec-15 A	07-Jan-16 A
BPS-150	Furnish & Install of Hydroponeumatic Tank	5	27-Jan-16 A	01-Feb-16 A
BPS-160	Furnish & Install of Portable Air Compressor	5	02-Feb-16 A	16-Feb-16 A
BPS-240	Clean and pressure test for utility piping	4	14-Feb-16 A	17-Feb-16 A
Electrical & Instrumentation works		58	12-Dec-15 A	25-Feb-16 A
BPS-190	Furnish & Install of exposed conduit	38	12-Dec-15 A	28-Jan-16 A
BPS-200	Furnish, installation and termination of transmitions pump power cable	25	28-Dec-15 A	28-Jan-16 A
BPS-220	Furnish & install lights & receptacles	14	06-Feb-16 A	25-Feb-16 A
BPS-260	Testing for all wires	18	13-Jan-16 A	04-Feb-16 A
Septic Tank		857	09-Sep-13 A	13-Jan-16 A
Material Submittals		149	09-Sep-13 A	04-Feb-14 A
MATM-SPTC	Prepare and submit Hatches Submittal	13	09-Sep-13 A	23-Sep-13 A
MATM-SPTC	Approval of Hatches Submittal	0		30-Sep-13 A
MATM-SPTC	Prepare and submit 4" PVC Pipes submittal	5	30-Jan-14 A	04-Feb-14 A
MATM-SPTC	Approval of 4" PVC Pipes submittal	0		04-Feb-14 A
Shop Drawing Submittals		107	24-Dec-14 A	09-Apr-15 A
CS102	Prepare & Submit Shop Drawings for Septic Tank -Structural details	56	24-Dec-14 A	08-Mar-15 A
CS103	Approval of Shop Drawings for Septic Tank -structural details	0		11-Mar-15 A
Mech113	Prepare & Submit Shop Drawings for Septic Tank - Mechanical Details	84	24-Dec-14 A	09-Apr-15 A
Mech123	Approval of Shop Drawings for Septic Tank - Mechanical Details	0		09-Apr-15 A
Structural & Concrete works		250	11-Mar-15 A	13-Jan-16 A
STS-010	Clearing and site preparation	0	11-Mar-15 A	11-Mar-15 A
STS-030	Excavation works	1	11-Mar-15 A	11-Mar-15 A
STS-031	Coating works of supplied precast sepage pit	2	17-Mar-15 A	17-Mar-15 A
STS-160	Install precast sepage pit	1	17-Mar-15 A	17-Mar-15 A
STS-161	Furnish & install Hatches	2	12-Jan-16 A	13-Jan-16 A
Plumbing works		1	17-May-15 A	17-May-15 A
STS-230	Installation of all required pipes	1	17-May-15 A	17-May-15 A
Finishing works		218	19-Mar-15 A	13-Dec-15 A
STS-260	First part of backfilling works	52	19-Mar-15 A	19-May-15 A
STS-351	Fininshing remaining backfilling works	8	05-Dec-15 A	13-Dec-15 A
Seepage Tank		405	24-Dec-14 A	18-May-15 A
Material Submittals		69	24-Dec-14 A	02-Mar-15 A
MATM-SPG-	Prepare & Submit precast septic tank Material Submittal	35	24-Dec-14 A	10-Feb-15 A
MATM-SPG-	Approval of precast septic tank Material Submittal	0		02-Mar-15 A
Shop Drawing Submittals		107	24-Dec-14 A	09-Apr-15 A
CS153	Prepare & Submit Shop Drawings for Seepage Tank -Structural details	56	24-Dec-14 A	08-Mar-15 A
CS163	Approval of Shop Drawings for Seepage Tank - Structural details	0		11-Mar-15 A
CS173	Prepare & Submit Shop Drawings for SeepageTank - Mechanical Deta	76	06-Jan-15 A	09-Apr-15 A
CS183	Approval of Shop Drawings for Seepage Tank - Mechanical Details	0		09-Apr-15 A
Structural & Concrete works		263	12-Mar-15 A	18-May-15 A
STS-271	Clearing and site preparation	1	12-Mar-15 A	12-Mar-15 A
STS-273	Excavation works	1	14-Mar-15 A	14-Mar-15 A
STS-274	leveling, and compacting of subgrade layer	1	17-Mar-15 A	17-Mar-15 A
STS-330	Supply & Install precast septic tank	1	17-Mar-15 A	17-Mar-15 A
STS-340	Installation of 4" PVC pipes and Other Mechanical works	2	17-May-15 A	18-May-15 A
STS-341	Backfilling Works	207	18-May-15 A	18-May-15 A
Living Quarters		879	18-Sep-13 A	28-Feb-16 A
Construction Submittals		316	06-Jan-15 A	17-Nov-15 A



Actual Level of Effort
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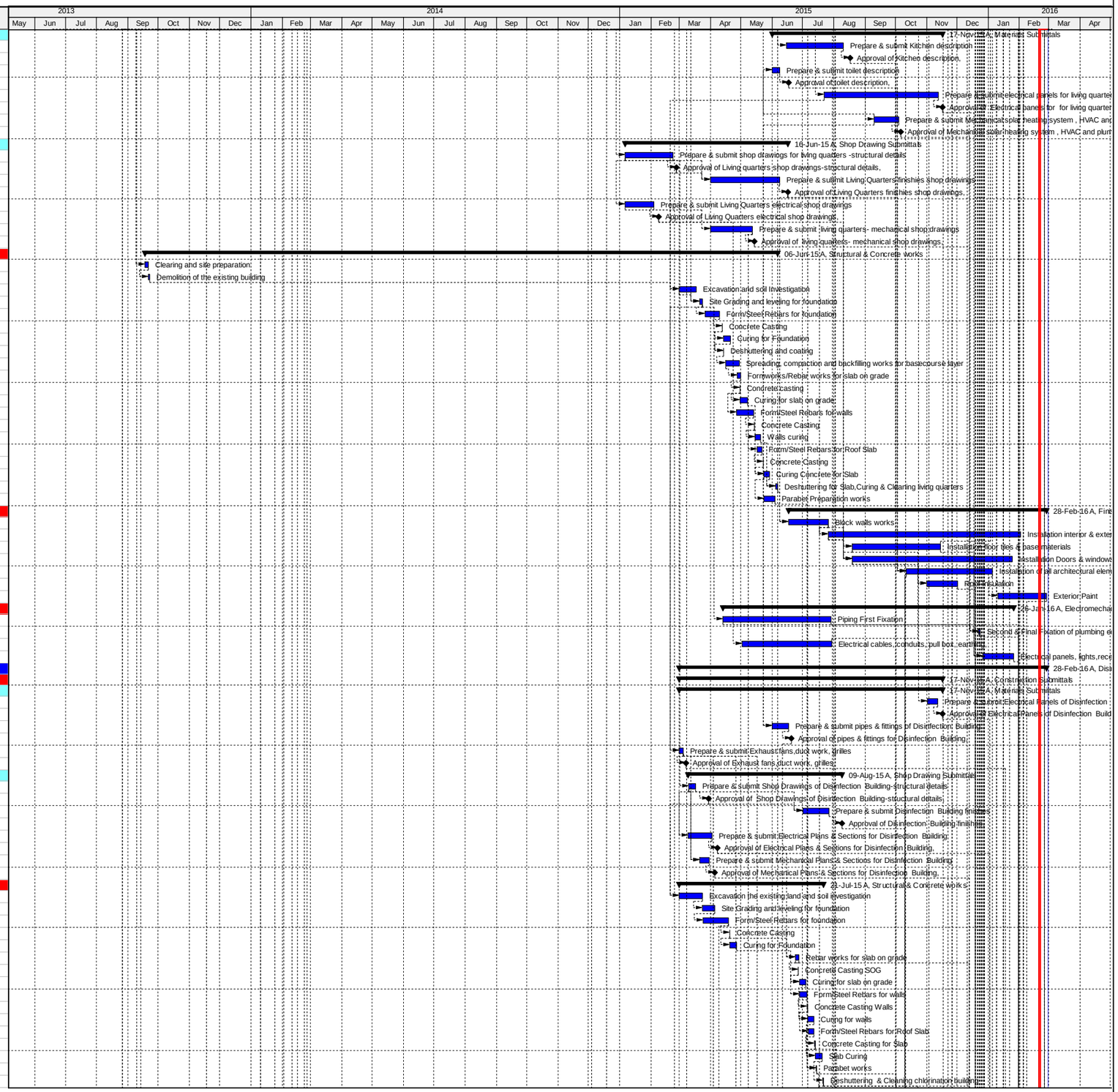
TASK filter: All Activities

Updated Schedule Up to 29.2.2016

Activity ID	Activity Name	Original Duration	Start	Finish
Materials Submittals		170	01-Jun-15 A	17-Nov-15 A
MATARC-	Prepare & submit Kitchen description	42	15-Jun-15 A	10-Aug-15 A
MATARC-	Approval of Kitchen description	0		17-Aug-15 A
MATARC-	Prepare & submit toilet description	7	01-Jun-15 A	08-Jun-15 A
MATARC-	Approval of toilet description	0		17-Jun-15 A
MATARC-	Prepare & submit electrical panels for living quarters	94	22-Jul-15 A	12-Nov-15 A
MATE200	Approval of Electrical panels for for living quarters	0		17-Nov-15 A
MATMEC	Prepare & submit Mechanical solar heating system , HVAC and plumpi	17	10-Sep-15 A	04-Oct-15 A
MATMEC	Approval of Mechanical solar heating system , HVAC and plumpig pipir	0		06-Oct-15 A
Shop Drawing Submittals		162	06-Jan-15 A	16-Jun-15 A
1CS110	Prepare & submit shop drawings for living quarters -structural details	37	06-Jan-15 A	23-Feb-15 A
2CS111	Approval of Living quarters shop drawings-structural details	0		26-Feb-15 A
Arch180	Prepare & submit Living Quarters finishies shop drawings	58	01-Apr-15 A	08-Jun-15 A
Arch190	Approval of Living Quarters finishies shop drawings	0		16-Jun-15 A
ELC110	Prepare & submit Living Quarters electrical shop drawings	22	06-Jan-15 A	04-Feb-15 A
ELC111	Approval of Living Quarters electrical shop drawings	0		09-Feb-15 A
MECH149	Prepare & submit living quarters- mechanical shop drawings	36	01-Apr-15 A	12-May-15 A
MECH150	Approval of living quarters- mechanical shop drawings	0		14-May-15 A
Structural & Concrete works		627	18-Sep-13 A	06-Jun-15 A
LQB-010	Clearing and site preparation	3	18-Sep-13 A	21-Sep-13 A
LQB-020	Demolition of the existing building	2	21-Sep-13 A	22-Sep-13 A
LQB-030	Excavation and soil Investigation	16	01-Mar-15 A	18-Mar-15 A
LQB-040	Site Grading and leveling for foundation	4	21-Mar-15 A	24-Mar-15 A
LQB-060	Form/Steel Rebars for foundation	13	26-Mar-15 A	10-Apr-15 A
LQB-070	Concrete Casting	1	13-Apr-15 A	13-Apr-15 A
LQB-071	Curing for Foundation	8	14-Apr-15 A	21-Apr-15 A
LQB-080	Deshuttering and coating	0	14-Apr-15 A	14-Apr-15 A
LQB-090	Spreading, compaction and backfilling works for basecourse layer	11	16-Apr-15 A	29-Apr-15 A
LQB-100	Formworks/Rebar works for slab on grade	4	27-Apr-15 A	30-Apr-15 A
LQB-110	Concrete casting	1	30-Apr-15 A	30-Apr-15 A
LQB-120	Curing for slab on grade	8	30-Apr-15 A	07-May-15 A
LQB-140	Form/Steel Rebars for walls	15	27-Apr-15 A	13-May-15 A
LQB-150	Concrete Casting	1	14-May-15 A	14-May-15 A
LQB-160	Walls curing	6	15-May-15 A	20-May-15 A
LQB-180	Form/Steel Rebars for Roof Slab	5	17-May-15 A	21-May-15 A
LQB-190	Concrete Casting	1	23-May-15 A	23-May-15 A
LQB-191	Curing Concrete for Slab	6	24-May-15 A	29-May-15 A
LQB-200	Deshuttering for Slab,Curing & Cleaning living quarters	1	04-Jun-15 A	06-Jun-15 A
LQB-201	Parabet Preparation works	10	24-May-15 A	03-Jun-15 A
Finishing works		191	17-Jun-15 A	28-Feb-16 A
LQB-208	Block walls works	27	17-Jun-15 A	26-Jul-15 A
LQB-210	Installation interior & exterior Plasters	19	26-Jul-15 A	02-Feb-16 A
LQB-219	Installation floor tiles & base materials	71	19-Aug-15 A	15-Nov-15 A
LQB-220	Installation Doors & windows	127	19-Aug-15 A	25-Jan-16 A
LQB-240	Installation of all architectural elements	69	12-Oct-15 A	05-Jan-16 A
LQB-250	Roof Insulation	26	01-Nov-15 A	02-Dec-15 A
LQB-280	Exterior Paint	27	11-Jan-16 A	28-Feb-16 A
Electromechanical works		231	13-Apr-15 A	26-Jan-16 A
LQB-181	Piping First Fixation	85	13-Apr-15 A	29-Jul-15 A
LQB-209	Second & Final Fixation of plumbing equipment and Split system air co	2	23-Dec-15 A	24-Dec-15 A
LQB-260	Electrical cables, conduits, pull box, earthing,	70	02-May-15 A	30-Jul-15 A
LQB-270	Electrical panels, lights,receptacles,	23	27-Dec-15 A	26-Jan-16 A
Disinfection Builing		350	01-Mar-15 A	28-Feb-16 A
Construction Submittals		262	01-Mar-15 A	17-Nov-15 A
Materials Submittals		262	01-Mar-15 A	17-Nov-15 A
MATE106	Prepare & submit Electrical Panels of Disinfection Building	10	02-Nov-15 A	12-Nov-15 A
MATE116	Approval of Electrical Panels of Disinfection Building	0		17-Nov-15 A
MATM106	Prepare & submit pipes & fittings of Disinfection Building	15	01-Jun-15 A	17-Jun-15 A
MATM107	Approval of pipes & fittings for Disinfection Building	0		20-Jun-15 A
MATM117	Prepare & submit Exhaust fans,duct work, grilles	5	01-Mar-15 A	05-Mar-15 A
MATM127	Approval of Exhaust fans,duct work, grilles	0		08-Mar-15 A
Shop Drawing Submittals		153	10-Mar-15 A	09-Aug-15 A
1CS104	Prepare & submit Shop Drawings of Disinfection Building-structural de	7	10-Mar-15 A	17-Mar-15 A
2CS105	Approval of Shop Drawings of Disinfection Building-structural details	0		30-Mar-15 A
ARC126	Prepare & submit Disinfection Building finishes	18	01-Jul-15 A	27-Jul-15 A
ARC127	Approval of Disinfection Building finishes	0		09-Aug-15 A
ELEC123	Prepare & submit Electrical Plans & Sections for Disinfection Building	21	10-Mar-15 A	02-Apr-15 A
ELEC133	Approval of Electrical Plans & Sections for Disinfection Building	0		07-Apr-15 A
MEC102	Prepare & submit Mechanical Plans & Sections for Disinfection Buildir	10	21-Mar-15 A	31-Mar-15 A
MEC103	Approval of Mechanical Plans & Sections for Disinfection Building	0		05-Apr-15 A
Structural & Concrete works		143	01-Mar-15 A	21-Jul-15 A
DFN-030	Excavation the existing land and soil investigation	21	01-Mar-15 A	24-Mar-15 A
DFN-040	Site Grading and leveling for foundation	11	24-Mar-15 A	05-Apr-15 A
DFN-060	Form/Steel Rebars for foundation	22	25-Mar-15 A	19-Apr-15 A
DFN-070	Concrete Casting	1	20-Apr-15 A	20-Apr-15 A
DFN-080	Curing for Foundation	8	20-Apr-15 A	27-Apr-15 A
DFN-100	Rebar works for slab on grade	2	24-Jun-15 A	27-Jun-15 A
DFN-110	Concrete Casting SOG	1	27-Jun-15 A	27-Jun-15 A
DFN-120	Curing for slab on grade	7	28-Jun-15 A	04-Jul-15 A
DFN-140	Form/Steel Rebars for walls	6	28-Jun-15 A	05-Jul-15 A
DFN-150	Concrete Casting Walls	1	06-Jul-15 A	06-Jul-15 A
DFN-160	Curing for walls	6	06-Jul-15 A	12-Jul-15 A
DFN-180	Form/Steel Rebars for Roof Slab	4	07-Jul-15 A	12-Jul-15 A
DFN-190	Concrete Casting for Slab	1	13-Jul-15 A	13-Jul-15 A
DFN-194	Slab Curing	7	13-Jul-15 A	20-Jul-15 A
DFN-195	Parabet works	1	14-Jul-15 A	15-Jul-15 A
DFN-200	Deshuttering & Cleaning chlorination building	1	21-Jul-15 A	21-Jul-15 A



Actual Level of Effort
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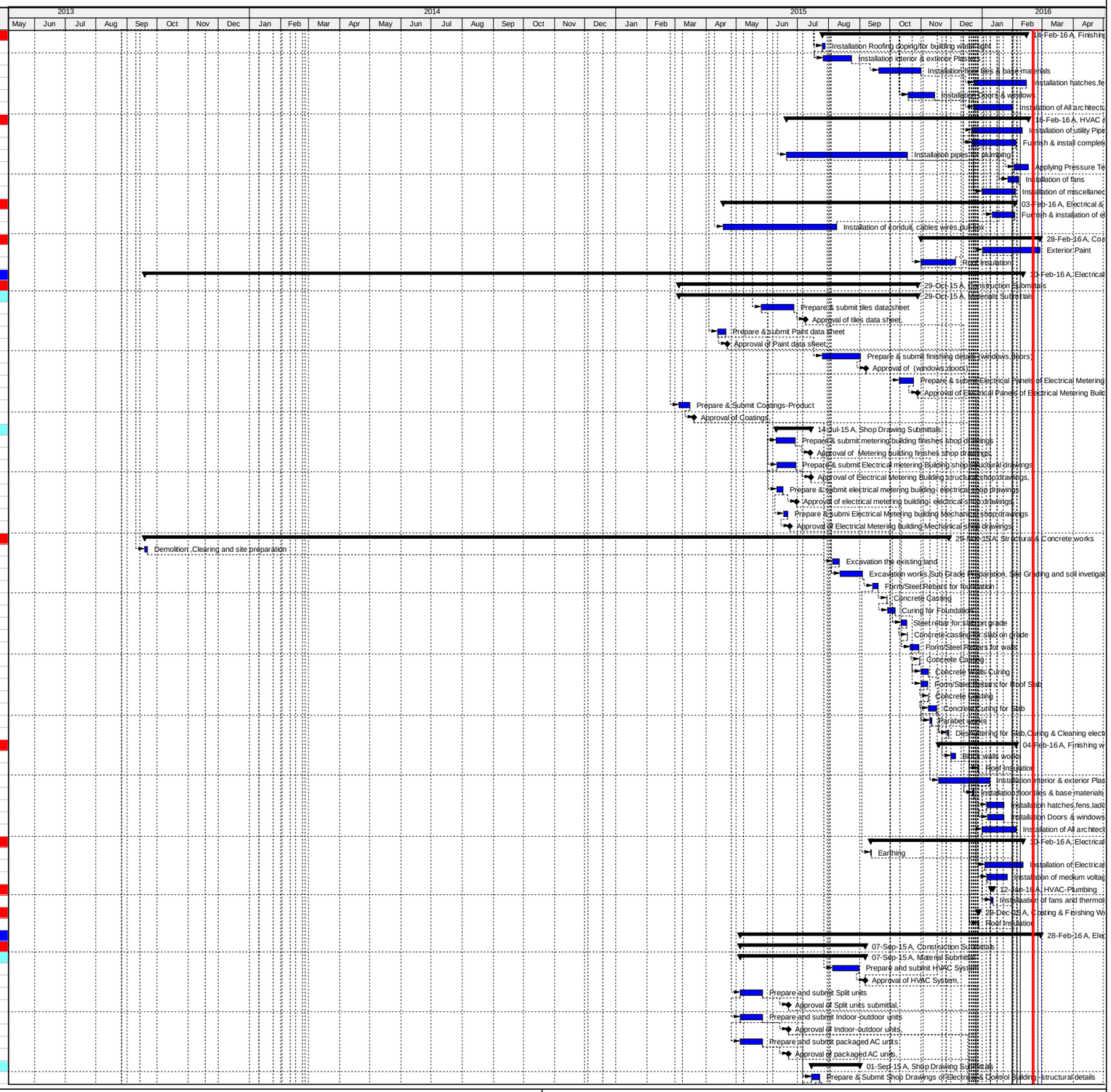
TASK filter: All Activities

Updated Schedule Up to 29.2.2016

Activity ID	Activity Name	Original Duration	Start	Finish
Finishing works		156	26-Jul-15 A	14-Feb-16 A
DFN-211	Installation Roofing coping/for building water tight	3	26-Jul-15 A	28-Jul-15 A
DFN-220	Installation interior & exterior Plasters	25	26-Jul-15 A	24-Aug-15 A
DFN-221	Installation floor tiles & base materials	33	20-Sep-15 A	01-Nov-15 A
DFN-230	Installation hatches,fens,ladders, Grading etc.	32	24-Dec-15 A	14-Feb-16 A
DFN-240	Installation Doors & windows	23	19-Oct-15 A	15-Nov-15 A
DFN-270	Installation of All architectural elements	29	24-Dec-15 A	31-Jan-16 A
HVAC & Mechanical Works		182	20-Jun-15 A	16-Feb-16 A
DFN-280	Installation of utility Piping <110mm including pipe supports & valves	35	22-Dec-15 A	10-Feb-16 A
DFN-285	Furnish & install complete and operable chlorination system including p	34	22-Dec-15 A	04-Feb-16 A
DFN-294	Installation pipes for plumping	95	20-Jun-15 A	19-Oct-15 A
DFN-295	Applying Pressure Test	3	02-Feb-16 A	16-Feb-16 A
DFN-370	Installation of fans	8	27-Jan-16 A	07-Feb-16 A
DFN-390	Installation of miscellaneous plumbing components	26	01-Jan-16 A	03-Feb-16 A
Electrical & Instrumentation works		233	18-Apr-15 A	03-Feb-16 A
DFN-310	Furnish & installation of electrical panels, lights,receptacles	18	11-Jan-16 A	03-Feb-16 A
DFN-330	Installation of conduit, cables wires,pull box	90	18-Apr-15 A	09-Aug-15 A
Coating & Finishing Works		84	01-Nov-15 A	28-Feb-16 A
DFN-288	Exterior Paint	34	02-Jan-16 A	28-Feb-16 A
DFN-290	Roof Insulation	29	01-Nov-15 A	06-Dec-15 A
Electrical Metering Building		876	18-Sep-13 A	10-Feb-16 A
Construction Submittals		239	05-Mar-15 A	29-Oct-15 A
Materials Submittals		239	05-Mar-15 A	29-Oct-15 A
MATARC-	Prepare & submit tiles data sheet	27	26-May-15 A	27-Jun-15 A
MATARC-	Approval of tiles data sheet	0		09-Jul-15 A
MATARC-	Prepare & submit Paint data sheet	8	13-Apr-15 A	21-Apr-15 A
MATARC-	Approval of Paint data sheet	0		22-Apr-15 A
MATC135	Prepare & submit finishing details (windows,doors)	33	26-Jul-15 A	01-Sep-15 A
MATC136	Approval of (windows,doors)	0		07-Sep-15 A
MATE-100	Prepare & submit Electrical Panels of Electrical Metering Building	13	10-Oct-15 A	25-Oct-15 A
MATE-110	Approval of Electrical Panels of Electrical Metering Building	0		29-Oct-15 A
MATM160	Prepare & Submit Coatings-Product	9	05-Mar-15 A	15-Mar-15 A
MATM170	Approval of Coatings	0		19-Mar-15 A
Shop Drawing Submittals		35	10-Jun-15 A	14-Jul-15 A
ARC118	Prepare & submit metering building finishes shop drawings	16	10-Jun-15 A	29-Jun-15 A
ARC119	Approval of Metering building finishes shop drawings	0		14-Jul-15 A
CS118	Prepare & submit Electrical metering Building shop structural drawings	15	10-Jun-15 A	29-Jun-15 A
CS119	Approval of Electrical Metering Building structural shop drawings	0		14-Jul-15 A
ELC139	Prepare & submit electrical metering building- electrical shop drawings	6	10-Jun-15 A	16-Jun-15 A
ELC140	Approval of electrical metering building- electrical shop drawings	0		30-Jun-15 A
MEC150	Prepare & submi Electrical Metering building Mechanical shop drawing	3	17-Jun-15 A	21-Jun-15 A
MEC160	Approval of Electrical Metering building Mechanical shop drawings	0		23-Jun-15 A
Structural & Concrete works		803	18-Sep-13 A	29-Nov-15 A
EMB-020	Demolition ,Clearing and site preparation	3	18-Sep-13 A	21-Sep-13 A
EMB-030	Excavation the existing land	6	05-Aug-15 A	11-Aug-15 A
EMB-040	Excavation works,Sub Grade Preparation, Site Grading and soil investig	20	12-Aug-15 A	03-Sep-15 A
EMB-060	Form/Steel Rebars for foundation	5	14-Sep-15 A	19-Sep-15 A
EMB-070	Concrete Casting	1	28-Sep-15 A	28-Sep-15 A
EMB-080	Curing for Foundation	8	29-Sep-15 A	06-Oct-15 A
EMB-100	Steel rebar for slab on grade	5	12-Oct-15 A	18-Oct-15 A
EMB-110	Concrete casting for slab on grade	0	19-Oct-15 A	19-Oct-15 A
EMB-140	Form/Steel Rebars for walls	8	21-Oct-15 A	30-Oct-15 A
EMB-150	Concrete Casting	1	31-Oct-15 A	31-Oct-15 A
EMB-160	Concrete Walls Curing	8	01-Nov-15 A	08-Nov-15 A
EMB-180	Form/Steel Rebars for Roof Slab	7	01-Nov-15 A	08-Nov-15 A
EMB-190	Concrete Casting	1	09-Nov-15 A	09-Nov-15 A
EMB-191	Concrete Curing for Slab	9	09-Nov-15 A	17-Nov-15 A
EMB-195	Parabet works	3	10-Nov-15 A	12-Nov-15 A
EMB-200	Deshuttering for Slab,Curing & Cleaning electrical metering building	2	28-Nov-15 A	29-Nov-15 A
Finishing works		60	19-Nov-15 A	04-Feb-16 A
EMB-210	Block walls works	4	01-Dec-15 A	06-Dec-15 A
EMB-215	Roof Insulation	2	28-Dec-15 A	29-Dec-15 A
EMB-220	Installation interior & exterior Plasters	37	19-Nov-15 A	09-Jan-16 A
EMB-225	Installation floor tiles & base materials	2	23-Dec-15 A	24-Dec-15 A
EMB-230	Installation hatches,fens,ladders, Grading etc.	13	06-Jan-16 A	23-Jan-16 A
EMB-240	Installation Doors & windows	12	07-Jan-16 A	23-Jan-16 A
EMB-270	Installation of All architectural elements	24	01-Jan-16 A	04-Feb-16 A
Electrical & Instrumentation works		121	12-Sep-15 A	10-Feb-16 A
EMB-310	Earthing	2	12-Sep-15 A	13-Sep-15 A
EMB-330	Installation of Electrical Panel , lights cables, wires, pull box etc.	31	04-Jan-16 A	10-Feb-16 A
EMB-340	Installation of medium voltage switch gear	16	06-Jan-16 A	26-Jan-16 A
HVAC-Plumbing		3	10-Jan-16 A	12-Jan-16 A
EMB-350	Installaation of fans and thermostat system	3	10-Jan-16 A	12-Jan-16 A
Coating & Finishing Works		2	28-Dec-15 A	29-Dec-15 A
EMB-360	Roof Insulation	2	28-Dec-15 A	29-Dec-15 A
Electrical Controls Building & Vaults		300	05-May-15 A	28-Feb-16 A
Construction Submittals		126	05-May-15 A	07-Sep-15 A
Material Submittal		126	05-May-15 A	07-Sep-15 A
MATM180	Prepare and submit HVAC System	23	05-Aug-15 A	31-Aug-15 A
MATM190	Approval of HVAC System	0		07-Sep-15 A
MATM200	Prepare and submit Split units	19	05-May-15 A	27-May-15 A
MATM210	Approval of Split units submittal	0		22-Jun-15 A
MATM220	Prepare and submit Indoor-outdoor units	19	05-May-15 A	27-May-15 A
MATM230	Approval of Indoor-outdoor units	0		22-Jun-15 A
MATM240	Prepare and submit packaged AC units	19	05-May-15 A	27-May-15 A
MATM250	Approval of packaged AC units	0		22-Jun-15 A
Shop Drawing Submittals		49	15-Jul-15 A	01-Sep-15 A
1CS116	Prepare & Submit Shop Drawings of Electrical & Control Building -struc	4	15-Jul-15 A	23-Jul-15 A



Actual Level of Effort
Actual Work
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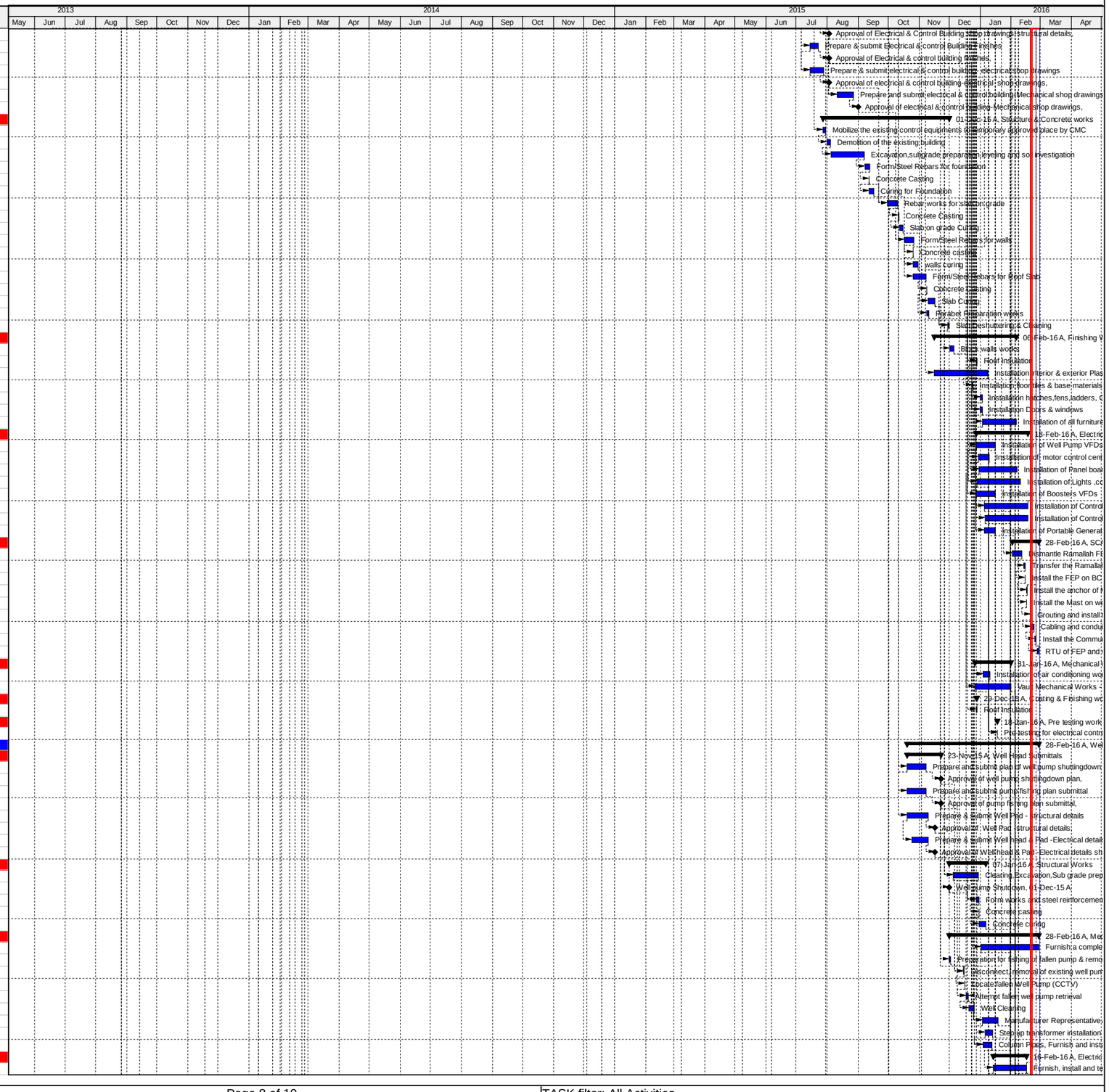
TASK filter: All Activities

Updated Schedule Up to 29.2.2016

Activity ID	Activity Name	Original Duration	Start	Finish
2CS117	Approval of Electrical & Control Building shop drawings-structural deta	0		03-Aug-15 A
ARC102	Prepare & submit Electrical & control Building Finishes	4	15-Jul-15 A	23-Jul-15 A
ARC103	Approval of Electrical & control building finishes	0		03-Aug-15 A
ELC151	Prepare & submit electrical & control building- electrical shop drawings	8	15-Jul-15 A	28-Jul-15 A
ELC158	Approval of electrical & control building-electrical shop drawings	0		03-Aug-15 A
MECH160	Prepare and submit electrical & control building-Mechanical shop draw	14	11-Aug-15 A	27-Aug-15 A
MECH170	Approval of electrical & control building-Mechanical shop drawings	0		01-Sep-15 A
Structure & Concrete works		127	28-Jul-15 A	01-Dec-15 A
ECB-009	Mobilize the existing control equipments to temporary approved place l	3	28-Jul-15 A	30-Jul-15 A
ECB-020	Demolition of the existing building	4	01-Aug-15 A	04-Aug-15 A
ECB-030	Excavation,subgrade preparation,leveling and soil investigation	29	05-Aug-15 A	07-Sep-15 A
ECB-060	Form/Steel Rebars for foundation	4	08-Sep-15 A	12-Sep-15 A
ECB-070	Concrete Casting	1	12-Sep-15 A	12-Sep-15 A
ECB-080	Curing for Foundation	5	12-Sep-15 A	16-Sep-15 A
ECB-100	Rebar works for slab on grade	9	30-Sep-15 A	10-Oct-15 A
ECB-110	Concrete Casting	1	11-Oct-15 A	11-Oct-15 A
ECB-120	Slab on grade Curing	5	12-Oct-15 A	16-Oct-15 A
ECB-140	Form/Steel Rebars for walls	9	17-Oct-15 A	26-Oct-15 A
ECB-150	Concrete casting	1	26-Oct-15 A	26-Oct-15 A
ECB-160	walls curing	6	26-Oct-15 A	31-Oct-15 A
ECB-180	Form/Steel Rebars for Roof Slab	12	26-Oct-15 A	08-Nov-15 A
ECB-190	Concrete Casting	0	09-Nov-15 A	09-Nov-15 A
ECB-191	Slab Curing	8	10-Nov-15 A	17-Nov-15 A
ECB-195	Parabet Preparation works	3	09-Nov-15 A	11-Nov-15 A
ECB-200	Slab Deshuttering & Cleaning	2	30-Nov-15 A	01-Dec-15 A
Finishing Works		62	16-Nov-15 A	06-Feb-16 A
ECB-210	Block walls works	4	02-Dec-15 A	06-Dec-15 A
ECB-215	Roof Insulation	2	28-Dec-15 A	29-Dec-15 A
ECB-220	Installation interior & exterior Plasters	31	16-Nov-15 A	09-Jan-16 A
ECB-221	Installation floor tiles & base materials	1	24-Dec-15 A	25-Dec-15 A
ECB-230	Installation hatches,fens,ladders, Grating etc.	1	01-Jan-16 A	03-Jan-16 A
ECB-240	Installation Doors & windows	1	01-Jan-16 A	03-Jan-16 A
ECB-270	Installation of all furniture and architectural elements	24	03-Jan-16 A	06-Feb-16 A
Electrical & Instrumentation works		31	28-Dec-15 A	18-Feb-16 A
ECB-320	Installation of Well Pump VFDs	15	28-Dec-15 A	16-Jan-16 A
ECB-330	Installation of motor control centers MCC	9	30-Dec-15 A	10-Jan-16 A
ECB-340	Installation of Panel boards	25	31-Dec-15 A	07-Feb-16 A
ECB-350	Installation of Lights ,conduits & cables	28	29-Dec-15 A	10-Feb-16 A
ECB-360	Installation of Boosters VFDs	15	28-Dec-15 A	16-Jan-16 A
ECB-370	Installation of Control System Hardware & Instruments	24	05-Jan-16 A	18-Feb-16 A
ECB-371	Installation of Control System software (Programming)	24	06-Jan-16 A	18-Feb-16 A
ECB-410	Installation of Portable Generator Termination Box	9	05-Jan-16 A	16-Jan-16 A
SCADA System Works		23	02-Feb-16 A	28-Feb-16 A
A7850	Dismantle Ramallah FEP	9	02-Feb-16 A	11-Feb-16 A
A7860	Transfer the Ramallah FEP and items of Well from Ramallah to Qabaty	2	13-Feb-16 A	14-Feb-16 A
A7870	Install the FEP on BCI tower	1	15-Feb-16 A	15-Feb-16 A
A7880	Install the anchor of Mast for Well	1	16-Feb-16 A	16-Feb-16 A
A7890	Install the Mast on well site	2	16-Feb-16 A	16-Feb-16 A
A7900	Grouting and install the RTU panel	1	20-Feb-16 A	20-Feb-16 A
A7910	Cabling and conduit and install the Antenna	3	21-Feb-16 A	23-Feb-16 A
A7920	Install the Communication module	2	24-Feb-16 A	25-Feb-16 A
A7930	RTU of FEP and well programming And HMI programming	2	27-Feb-16 A	28-Feb-16 A
Mechanical Works		27	27-Dec-15 A	31-Jan-16 A
ECB-380	Installation of air conditioning works	7	04-Jan-16 A	11-Jan-16 A
ECB-400	Vault Mechanical Works - Metering Stations (Pipes & Valves)	27	27-Dec-15 A	31-Jan-16 A
Coating & Finishing works		2	28-Dec-15 A	29-Dec-15 A
ECB-390	Roof Insulation	2	28-Dec-15 A	29-Dec-15 A
Pre testing works		0	18-Jan-16 A	18-Jan-16 A
ECB-500	Pre-testing for electrical control building electromechanical works	0	18-Jan-16 A	18-Jan-16 A
Well head &Pads		106	20-Oct-15 A	28-Feb-16 A
Well Head Submittals		35	20-Oct-15 A	23-Nov-15 A
A7810	Prepare and submit plan of well pump shuttingdown plan	17	20-Oct-15 A	08-Nov-15 A
A7820	Approval of well pump shuttingdown plan	0		23-Nov-15 A
A7830	Prepare and submit pump fishing plan submittal	17	20-Oct-15 A	08-Nov-15 A
A7840	Approval of pump fishing plan submittal	0		23-Nov-15 A
CS142	Prepare & submit Well Pad - structural details	19	20-Oct-15 A	10-Nov-15 A
CS143	Approval of Well Pad -structural details	0		17-Nov-15 A
ELC161	Prepare & submit Well head & Pad -Electrical details shop drawings	15	25-Oct-15 A	10-Nov-15 A
ELC168	Approval of Well head & Pad -Electrical details shop drawings	0		17-Nov-15 A
Structural Works		30	01-Dec-15 A	07-Jan-16 A
WHP-010	Clearing,Excavation,Sub grade preparation, and Soil Investigation worl	7	05-Dec-15 A	30-Dec-15 A
WHP-011	Well pump Shutdown	0	01-Dec-15 A	
WHP-050	Form works and steel reinforcement works	4	28-Dec-15 A	31-Dec-15 A
WHP-060	Concrete casting	1	31-Dec-15 A	31-Dec-15 A
WHP-070	Concrete curing	5	31-Dec-15 A	07-Jan-16 A
Mechanical works (New Well Pump)		51	01-Dec-15 A	28-Feb-16 A
WHP-110	Furnish a complete spare well pumping unit and deliver to PWA storag	25	02-Jan-16 A	28-Feb-16 A
WHP-112	Preparation for fishing of fallen pump & removal of existing operational	2	01-Dec-15 A	02-Dec-15 A
WHP-113	Disconnect, removal of existing well pump unit,column pipe and equipr	2	15-Dec-15 A	16-Dec-15 A
WHP-114	Locate fallen Well Pump (CCTV)	0	17-Dec-15 A	17-Dec-15 A
WHP-115	Attempt fallen well pump retrieval	2	18-Dec-15 A	20-Dec-15 A
WHP-116	Well Cleaning	5	21-Dec-15 A	26-Dec-15 A
WHP-123	Manufacturer Representative Attendance during installation & training	14	03-Jan-16 A	19-Jan-16 A
WHP-124	Step up transformer installation	7	06-Jan-16 A	13-Jan-16 A
WHP-125	Column Pipes, Furnish and install of new submersible pump and Pump	9	04-Jan-16 A	13-Jan-16 A
Electrical works (New Well Pump)		14	14-Jan-16 A	16-Feb-16 A
WHP-150	Furnish, install and termination of well pump power and control wire,etc	14	14-Jan-16 A	16-Feb-16 A



Actual Level of Effort
Actual Work
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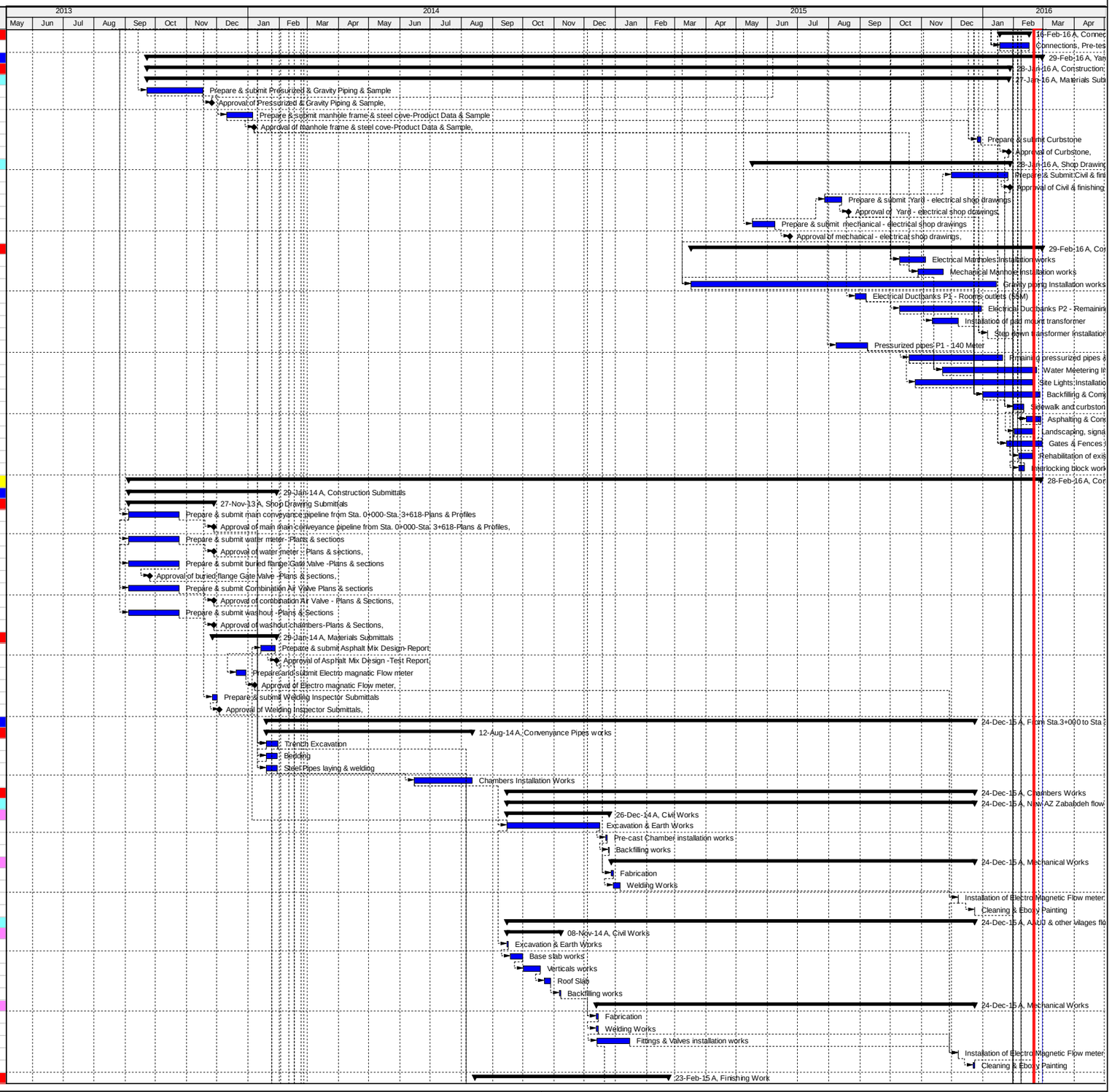
summary

TASK filter: All Activities

Updated Schedule Up to 29.2.2016

Activity ID	Activity Name	Original Duration	Start	Finish
Connection & Pre testing works		13	18-Jan-16 A	16-Feb-16 A
WHP-117	Connections, Pre-testing & Startup Works	13	18-Jan-16 A	16-Feb-16 A
Yard Works		877	22-Sep-13 A	29-Feb-16 A
Construction Submittals		858	22-Sep-13 A	28-Jan-16 A
Materials Submittals		858	22-Sep-13 A	27-Jan-16 A
1MATM14	Prepare & submit Presurized & Gravity Piping & Sample	46	22-Sep-13 A	17-Nov-13 A
2MATM15	Approval of Pressurized & Gravity Piping & Sample	0		25-Nov-13 A
4ATM126	Prepare & submit manhole frame & steel cove-Product Data & Sample	15	11-Dec-13 A	05-Jan-14 A
5MATM17	Approval of manhole frame & steel cove-Product Data & Sample	0		06-Jan-14 A
MATC117	Prepare & submit Curbstone	3	27-Dec-15 A	30-Dec-15 A
MATC118	Approval of Curbstone	0		27-Jan-16 A
Shop Drawing Submittals		256	17-May-15 A	28-Jan-16 A
C7910	Prepare & Submit Civil & finishing works shop drawins	45	01-Dec-15 A	26-Jan-16 A
C7920	Approval of Civil & finishing works shop drawins	0		28-Jan-16 A
E7870	Prepare & submit Yard - electrical shop drawings	15	28-Jul-15 A	13-Aug-15 A
E7880	Approval of Yard - electrical shop drawings	0		20-Aug-15 A
M7890	Prepare & submit mechanical - electrical shop drawings	20	17-May-15 A	08-Jun-15 A
M7900	Approval of mechanical - electrical shop drawings	0		23-Jun-15 A
Construction Works		271	17-Mar-15 A	29-Feb-16 A
YAW1000	Electrical Manholes Installation works	23	10-Oct-15 A	05-Nov-15 A
YAW1010	Mechanical Manhole Installation works	20	29-Oct-15 A	23-Nov-15 A
YAW1020	Gravity piping Installation works	246	17-Mar-15 A	15-Jan-16 A
YAW1030	Electrical Ductbanks P1 - Rooms outlets (55M)	10	27-Aug-15 A	07-Sep-15 A
YAW1031	Electrical Ductbanks P2 - Remaining yard	68	10-Oct-15 A	31-Dec-15 A
YAW1034	Installation of pad mount transformer	21	12-Nov-15 A	08-Dec-15 A
YAW1035	Step down transformer Installation works	1	06-Jan-16 A	06-Jan-16 A
YAW1040	Pressurized pipes P1 - 140 Meter	28	08-Aug-15 A	08-Sep-15 A
YAW1041	Rmaining pressurized pipes & Valves Installation works P2	75	20-Oct-15 A	21-Jan-16 A
YAW1045	Water Meetering Installation works	59	22-Nov-15 A	24-Feb-16 A
YAW1050	Site Lights Installation works	79	26-Oct-15 A	20-Feb-16 A
YAW1060	Backfilling & Compaction Works	24	01-Jan-16 A	27-Feb-16 A
YAW1070	Sidewalk and curbstone preparation works	3	31-Jan-16 A	11-Feb-16 A
YAW1080	Asphalting & Concreting Works	3	13-Feb-16 A	28-Feb-16 A
YAW1090	Landscaping, signage	4	01-Feb-16 A	22-Feb-16 A
YAW1100	Gates & Fences Preparation works	7	25-Jan-16 A	29-Feb-16 A
YAW1110	Rehabilitation of existing PWA electrical room	6	06-Feb-16 A	20-Feb-16 A
YAW1120	Interlocking block works	5	06-Feb-16 A	11-Feb-16 A
Construction and Installation of Qabatiya convenyance Pipe		893	04-Sep-13 A	28-Feb-16 A
Construction Submittals		148	04-Sep-13 A	29-Jan-14 A
Shop Drawing Submittals		85	04-Sep-13 A	27-Nov-13 A
1MEC118	Prepare & submit main conveyance pipeline from Sta. 0+000-Sta. 3+61	41	04-Sep-13 A	24-Oct-13 A
2MEC119	Approval of main main conveyance pipeline from Sta. 0+000-Sta. 3+61	0		27-Nov-13 A
MEC110	Prepare & submit water meter- Plans & sections	41	04-Sep-13 A	24-Oct-13 A
MEC111	Approval of water meter - Plans & sections	0		27-Nov-13 A
MEC112	Prepare & submit buried flange Gate Valve -Plans & sections	41	04-Sep-13 A	24-Oct-13 A
MEC113	Approval of buried flange Gate Valve -Plans & sections	0		25-Sep-13 A
MEC114	Prepare & submit Combination Air Valve Plans & sections	41	04-Sep-13 A	24-Oct-13 A
MEC115	Approval of combination Air Valve - Plans & Sections	0		27-Nov-13 A
MEC149	Prepare & submit washout -Plans & Sections	41	04-Sep-13 A	24-Oct-13 A
MEC159	Approval of washout chambers-Plans & Sections	0		27-Nov-13 A
Materials Submittals		65	26-Nov-13 A	29-Jan-14 A
MATC131	Prepare & submit Asphalt Mix Design-Report	11	14-Jan-14 A	28-Jan-14 A
MATC132	Approval of Asphalt Mix Design -Test Report	0		29-Jan-14 A
MATC142	Prepare and submit Electro magnatic Flow meter	10	20-Dec-13 A	29-Dec-13 A
MATC152	Approval of Electro magnatic Flow meter	0		07-Jan-14 A
MEC129	Prepare & submit Welding Inspector Submittals	5	26-Nov-13 A	01-Dec-13 A
MEC139	Approval of Welding Inspector Submittals	0		03-Dec-13 A
From Sta.3+000 to Sta 3+620 Convenyance Pipe & Chamber Installation		600	19-Jan-14 A	24-Dec-15 A
Convenyance Pipes works		168	19-Jan-14 A	12-Aug-14 A
CP1110	Trench Excavation	10	19-Jan-14 A	30-Jan-14 A
CP1120	Bedding	10	19-Jan-14 A	30-Jan-14 A
CP1150	Steel Pipes laying & welding	10	19-Jan-14 A	30-Jan-14 A
CP1870	Chambers Installation Works	45	15-Jun-14 A	12-Aug-14 A
Chambers Works		404	15-Sep-14 A	24-Dec-15 A
New AZ Zababdeh flow monitoring chamber 3+280		404	15-Sep-14 A	24-Dec-15 A
Civil Works		82	15-Sep-14 A	26-Dec-14 A
CP1170	Excavation & Earth Works	75	15-Sep-14 A	16-Dec-14 A
CP1180	Pre-cast Chamber installation works	3	22-Dec-14 A	24-Dec-14 A
CP1210	Backfilling works	0	25-Dec-14 A	26-Dec-14 A
Mechanical Works		321	28-Dec-14 A	24-Dec-15 A
CP1220	Fabrication	3	28-Dec-14 A	30-Dec-14 A
CP1230	Welding Works	5	30-Dec-14 A	06-Jan-15 A
CP1240	Installation of Electro Magnetic Flow meter	1	08-Dec-15 A	08-Dec-15 A
CP1250	Cleaning & Eboxy Painting	1	24-Dec-15 A	24-Dec-15 A
AAUJ & other vilages flow monitoring chamber 3+619		404	15-Sep-14 A	24-Dec-15 A
Civil Works		43	15-Sep-14 A	08-Nov-14 A
CP1350	Excavation & Earth Works	2	15-Sep-14 A	16-Sep-14 A
CP1360	Base slab works	10	19-Sep-14 A	30-Sep-14 A
CP1370	Verticals works	12	01-Oct-14 A	18-Oct-14 A
CP1380	Roof Slab	6	22-Oct-14 A	29-Oct-14 A
CP1390	Backfilling works	2	06-Nov-14 A	08-Nov-14 A
Mechanical Works		333	13-Dec-14 A	24-Dec-15 A
CP1400	Fabrication	3	13-Dec-14 A	15-Dec-14 A
CP1410	Welding Works	3	13-Dec-14 A	15-Dec-14 A
CP1411	Fittings & Valves installation works	22	14-Dec-14 A	15-Jan-15 A
CP1420	Installation of Electro Magnetic Flow meter and other mechanical work	1	08-Dec-15 A	08-Dec-15 A
CP1430	Cleaning & Eboxy Painting	1	23-Dec-15 A	24-Dec-15 A
Finishing Work		153	14-Aug-14 A	23-Feb-15 A



Actual Level of Effort | Remaining Work | Milestone
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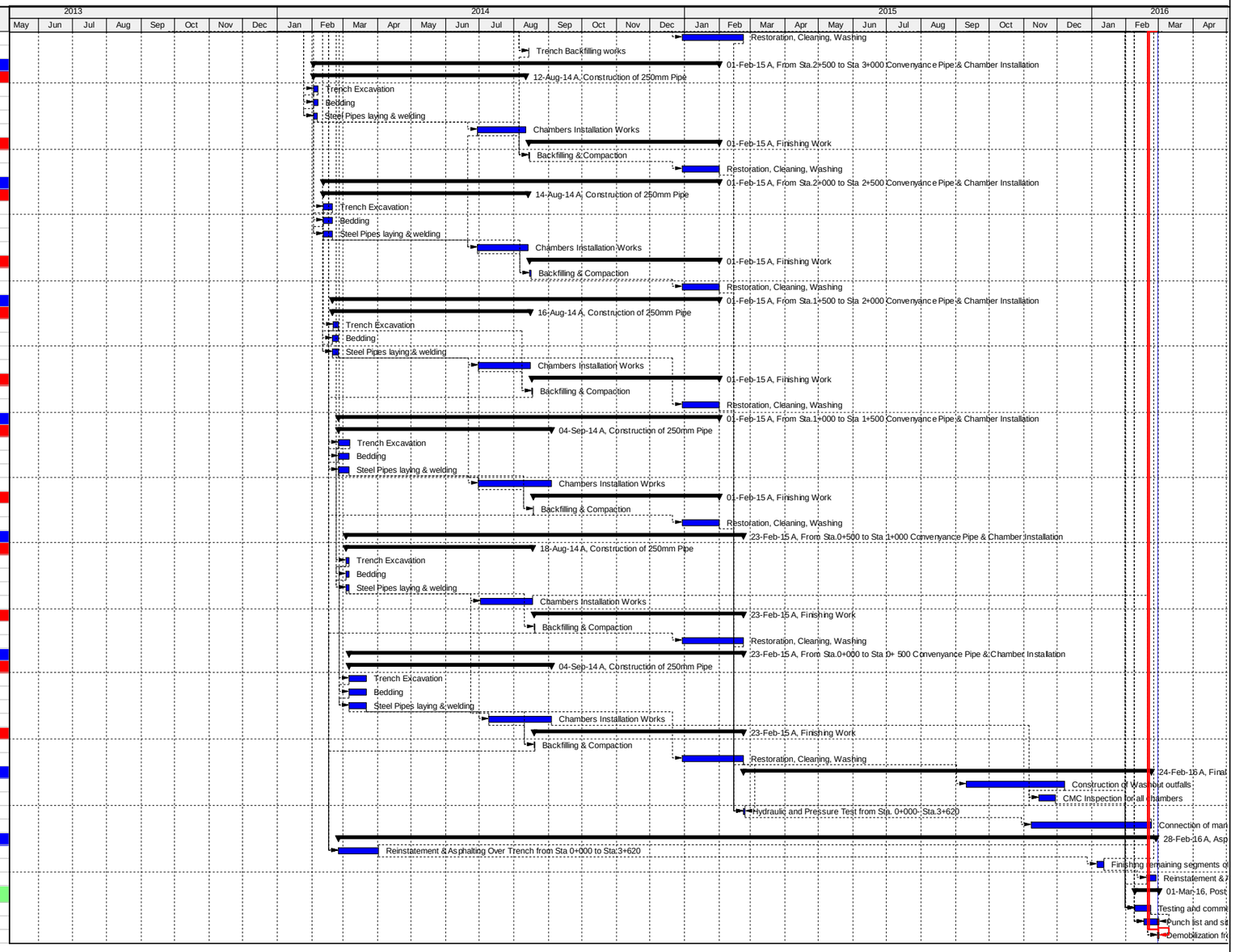
TASK filter: All Activities

Updated Schedule Up to 29.2.2016

Activity ID	Activity Name	Original Duration	Start	Finish
CP1160	Restoration, Cleaning, Washing	41	30-Dec-14 A	23-Feb-15 A
CP1880	Trench Backfilling works	1	14-Aug-14 A	14-Aug-14 A
From Sta.2+500 to Sta 3+000 Convenyance Pipe & Chamber Installation		293	02-Feb-14 A	01-Feb-15 A
Construction of 250mm Pipe		157	02-Feb-14 A	12-Aug-14 A
CP1470	Trench Excavation	5	02-Feb-14 A	06-Feb-14 A
CP1480	Bedding	5	02-Feb-14 A	06-Feb-14 A
CP1485	Steel Pipes laying & welding	5	02-Feb-14 A	06-Feb-14 A
CP1490	Chambers Installation Works	33	29-Jun-14 A	12-Aug-14 A
Finishing Work		135	14-Aug-14 A	01-Feb-15 A
CP1689	Backfilling & Compaction	1	14-Aug-14 A	15-Aug-14 A
CP1690	Restoration, Cleaning, Washing	23	30-Dec-14 A	01-Feb-15 A
From Sta.2+000 to Sta 2+500 Convenyance Pipe & Chamber Installation		285	11-Feb-14 A	01-Feb-15 A
Construction of 250mm Pipe		151	11-Feb-14 A	14-Aug-14 A
CP1510	Trench Excavation	8	11-Feb-14 A	19-Feb-14 A
CP1520	Bedding	8	11-Feb-14 A	19-Feb-14 A
CP1525	Steel Pipes laying & welding	8	11-Feb-14 A	19-Feb-14 A
CP1530	Chambers Installation Works	35	29-Jun-14 A	14-Aug-14 A
Finishing Work		134	15-Aug-14 A	01-Feb-15 A
CP1719	Backfilling & Compaction	1	15-Aug-14 A	16-Aug-14 A
CP1720	Restoration, Cleaning, Washing	23	30-Dec-14 A	01-Feb-15 A
From Sta.1+500 to Sta 2+000 Convenyance Pipe & Chamber Installation		278	19-Feb-14 A	01-Feb-15 A
Construction of 250mm Pipe		145	19-Feb-14 A	16-Aug-14 A
CP1640	Trench Excavation	4	20-Feb-14 A	24-Feb-14 A
CP1650	Bedding	6	19-Feb-14 A	25-Feb-14 A
CP1651	Steel Pipes laying & welding	6	19-Feb-14 A	25-Feb-14 A
CP1660	Chambers Installation Works	35	30-Jun-14 A	16-Aug-14 A
Finishing Work		133	17-Aug-14 A	01-Feb-15 A
CP1749	Backfilling & Compaction	1	17-Aug-14 A	17-Aug-14 A
CP1750	Restoration, Cleaning, Washing	23	30-Dec-14 A	01-Feb-15 A
From Sta.1+000 to Sta 1+500 Convenyance Pipe & Chamber Installation		273	25-Feb-14 A	01-Feb-15 A
Construction of 250mm Pipe		157	25-Feb-14 A	04-Sep-14 A
CP1010	Trench Excavation	9	25-Feb-14 A	06-Mar-14 A
CP1020	Bedding	9	25-Feb-14 A	06-Mar-14 A
CP1021	Steel Pipes laying & welding	9	25-Feb-14 A	06-Mar-14 A
CP1030	Chambers Installation Works	52	30-Jun-14 A	04-Sep-14 A
Finishing Work		132	18-Aug-14 A	01-Feb-15 A
CP1760	Backfilling & Compaction	1	18-Aug-14 A	18-Aug-14 A
CP1780	Restoration, Cleaning, Washing	23	30-Dec-14 A	01-Feb-15 A
From Sta.0+500 to Sta 1+000 Convenyance Pipe & Chamber Installation		286	03-Mar-14 A	23-Feb-15 A
Construction of 250mm Pipe		137	03-Mar-14 A	18-Aug-14 A
CP1060	Trench Excavation	4	03-Mar-14 A	06-Mar-14 A
CP1070	Bedding	4	03-Mar-14 A	06-Mar-14 A
CP1075	Steel Pipes laying & welding	4	03-Mar-14 A	06-Mar-14 A
CP1080	Chambers Installation Works	35	02-Jul-14 A	18-Aug-14 A
Finishing Work		149	19-Aug-14 A	23-Feb-15 A
CP1806	Backfilling & Compaction	1	19-Aug-14 A	19-Aug-14 A
CP1810	Restoration, Cleaning, Washing	41	30-Dec-14 A	23-Feb-15 A
From Sta.0+000 to Sta 0+ 500 Convenyance Pipe & Chamber Installation		283	06-Mar-14 A	23-Feb-15 A
Construction of 250mm Pipe		149	06-Mar-14 A	04-Sep-14 A
CP1570	Trench Excavation	14	06-Mar-14 A	22-Mar-14 A
CP1580	Bedding	14	06-Mar-14 A	22-Mar-14 A
CP1585	Steel Pipes laying & welding	14	06-Mar-14 A	22-Mar-14 A
CP1590	Chambers Installation Works	45	09-Jul-14 A	04-Sep-14 A
Finishing Work		149	19-Aug-14 A	23-Feb-15 A
CP1839	Backfilling & Compaction	1	19-Aug-14 A	19-Aug-14 A
CP1840	Restoration, Cleaning, Washing	41	30-Dec-14 A	23-Feb-15 A
Final conveyance system connection works		347	23-Feb-15 A	24-Feb-16 A
A7769	Construction of Washout outfalls	89	11-Sep-15 A	08-Dec-15 A
A7770	CMC Inspection for all chambers	12	15-Nov-15 A	30-Nov-15 A
CP1849	Hydraulic and Pressure Test from Sta. 0+000- Sta.3+620	2	23-Feb-15 A	24-Feb-15 A
CP1859	Connection of manholes with the transmission pipeline	71	08-Nov-15 A	24-Feb-16 A
Asphalt work of Qabatiya convenyance Pipe		719	25-Feb-14 A	28-Feb-16 A
CP1100	Reinstatement & Asphalting Over Trench from Sta 0+000 to Sta 3+620	32	25-Feb-14 A	02-Apr-14 A
CP1890	Finishing remaining segments of Asphalting works Over the chambers	6	06-Jan-16 A	12-Jan-16 A
CP1900	Reinstatement & Asphalting new sections in Alzabadi	12	20-Feb-16 A	28-Feb-16 A
Post Construction Phase		17	09-Feb-16 A	01-Mar-16
A6775	Testing and commessioning	15	09-Feb-16 A	23-Feb-16 A
A6776	Punch list and site handing over	10	17-Feb-16 A	01-Mar-16
A6778	Demobilization from site & close out Project	2	29-Feb-16	01-Mar-16*



Actual Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone
summary

TASK filter: All Activities